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ABSTRACT

The data presented in these tabulations are based on the 1976 National Science Foundation survey of scientific and engineering personnel employed at universities and colleges. The data are contained in 60 statistical tables organized under the following broad headings: trends; type of institution; field, employment status, control, educational attainment, function, and sex; 50 leading universities; geographic distribution; research and development; Ph.D. technicians employed in the sciences and engineering; and summary data from survey questionnaires. (BB)

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ED166027

MANPOWER RESOURCES FOR SCIENTIFIC ACTIVITIES AT UNIVERSITIES AND COLLEGES, JANUARY 1976

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION

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Detailed Statistical Tables

Appendix B

SURVEYS OF SCIENCE RESOURCES SERIES
NATIONAL SCIENCE FOUNDATION
WASHINGTON, D.C. 20550

NSF 76-321

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Notes

- The data presented in these tabulations are based on the 1976 NSF survey of scientific and engineering personnel employed at universities and colleges. An analytical report of the findings will be published at a later date.

- Of 2,210 institutions included in the 1976 survey, the number of respondents was 1,915 or 87 percent; NSF provided estimates for the remaining 295 nonrespondents. Among the 300 doctorate-granting institutions, which account for more than two-thirds of total employment of academic scientists and engineers, the response rate was 96 percent. The high response rate for the larger institutions accounted for relatively low rates of estimation for most of the aggregated figures. The rate of estimation for total scientists and engineers in 1976, for example, comprised only 8 percent of the universe total. It should be noted that rates of imputation refer only to the portion of the total estimated by NSF and, therefore, do not take into account estimates by the institutions.

- Data for earlier years were adjusted downward to reflect the deletion of historians from survey coverage. In 1975 these reductions amounted to approximately 5 percent for all scientists and engineers and 24 percent for all social scientists.

- Requests for additional information concerning the survey results should be addressed to Robert J. Loycano, Division of Science Resources Studies, Washington, D.C. 20550.

Appendix B

Part 1
Statistical Tables

NOTE: Tables B-1, B-2, B-13, B-21, B-23, B-25, B-38, B-40, B-42, and B-44, combine full-time and part-time scientists and engineers.

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Table B-1. Scientists and engineers employed in universities and colleges, by field of employment: January 1965-76

Field of employment	January							
	1965	1967	1969	1971	1973	1974	1975	1976
Total	178,904	212,855	231,756	257,904	265,208	269,265	280,635	289,204
Engineers (Total)	21,681	25,253	25,387	27,130	27,530	27,147	27,845	28,296
Aeronautical & astronautical Engineers	1,127	1,360	1,357	1,469	1,480	1,191	1,094	1,127
Chemical engineers	1,571	1,565	1,735	1,843	1,761	1,724	1,856	1,833
Civil engineers	3,145	3,660	3,894	4,129	4,487	4,544	4,853	4,995
Electrical engineers	5,478	6,563	6,803	6,885	6,941	6,475	6,758	6,915
Mechanical engineers	4,108	4,638	4,812	5,387	5,188	4,959	5,286	5,290
Other engineers	6,252	7,467	6,786	7,417	7,673	8,254	7,998	8,136
Physical scientists (Total)	25,485	31,354	33,698	35,943	37,150	38,214	38,682	39,959
Chemists	10,684	12,961	14,201	14,688	15,286	16,063	16,134	16,593
Earth scientists 1/	4,005	5,111	5,549	6,500	6,935	7,627	7,842	8,462
Physicists	9,132	11,127	11,766	12,195	12,184	12,135	12,319	12,240
Other Physical scientists	1,664	2,155	2,182	2,560	2,745	2,389	2,387	2,664
Mathematical scientists (Total)	13,680	17,776	22,495	24,548	24,770	27,096	28,414	29,798
Life scientists (Total)	75,775	87,347	97,206	110,274	112,667	111,314	115,254	115,723
Agricultural scientists	13,507	14,950	15,150	18,039	15,278	13,619	14,627	14,154
Biological scientists	24,281	27,419	29,257	31,808	33,629	35,723	38,192	39,734
Medical scientists	37,987	44,978	52,799	60,427	63,760	61,972	62,435	61,835
Psychologists (Total)	9,430	11,358	14,780	16,806	18,876	19,962	21,665	22,857
Social scientists (Total)	32,853	39,767	38,190	43,203	44,215	45,532	48,775	52,571
Economists	7,932	9,662	10,402	11,263	11,376	12,045	12,667	13,170
Sociologists	6,261	7,558	9,451	11,323	12,483	13,000	14,230	15,159
Political scientists	5,919	7,190	7,919	8,938	9,704	10,005	10,555	11,309
Other social scientists	12,741	15,357	10,418	11,679	10,652	10,482	11,323	12,933

1/ Includes data for atmospheric scientists and oceanographers
SOURCE: NATIONAL SCIENCE FOUNDATION

Table B-2 Scientists and engineers employed in universities and colleges, by function: January 1965-76

Function	January							
	1965	1967	1969	1971	1973	1974	1975	1976
Total	178,904	212,855	231,756	257,904	265,208	269,265	280,635	289,204
Teaching	121,991	147,846	160,781	184,966	199,083	207,138	215,776	223,216
Research and development	40,003	44,603	47,118	48,268	46,634	47,375	49,975	50,994
Other activities	16,910	20,406	23,857	24,670	19,491	14,752	14,884	14,994

SOURCE: NATIONAL SCIENCE FOUNDATION

Table B-3 Scientists and engineers employed in universities and colleges, by field and employment status: January 1965-76

Field and employment status	January							
	1965	1967	1969	1971	1973	1974	1975	1976
Total	178,904	212,855	231,756	257,904	265,208	269,265	280,635	289,204
Full-time	142,713	170,557	187,082	209,416	216,741	218,843	224,784	230,539
Part-time	36,191	42,298	44,674	48,488	48,467	50,422	55,851	58,665
Engineers	21,681	25,253	25,387	27,130	27,530	27,147	27,845	28,296
Full-time	18,117	20,983	21,431	23,039	23,485	22,764	22,579	22,799
Part-time	3,564	4,270	3,956	4,091	4,045	4,383	5,266	5,497
Physical scientists	25,485	31,354	33,698	35,943	37,150	38,214	38,682	39,959
Full-time	22,826	27,655	29,975	32,098	32,761	33,412	33,479	34,442
Part-time	2,659	3,699	3,723	3,845	4,389	4,802	5,203	5,517
Mathematical scientists	13,680	17,776	22,495	24,548	24,770	27,096	28,414	29,798
Full-time	10,998	14,397	18,390	20,282	20,794	22,157	22,392	23,081
Part-time	2,682	3,379	4,105	4,266	3,976	4,939	6,022	6,717
Life scientists	75,775	87,347	97,206	110,274	112,667	111,314	115,254	115,723
Full-time	57,135	66,620	74,882	85,907	88,731	88,900	92,004	92,589
Part-time	18,640	20,727	22,324	24,367	23,936	22,414	23,250	23,134
Psychologists	9,430	11,358	14,780	16,806	18,876	19,962	21,665	22,857
Full-time	6,929	8,554	11,536	12,994	14,777	14,957	15,995	16,758
Part-time	2,501	2,804	3,244	3,812	4,099	5,005	5,670	6,099
Social scientists	32,853	39,767	38,190	43,203	44,215	45,532	48,775	52,571
Full-time	26,708	32,348	30,868	35,096	36,193	36,653	38,335	40,870
Part-time	6,145	7,419	7,322	8,107	8,022	8,879	10,440	11,701

SOURCE: NATIONAL SCIENCE FOUNDATION

Table B-4 Scientists and engineers employed in universities and colleges, by type of institution and employment status: January 1965-76

Type of institution and employment status	January							
	1965	1967	1969	1971	1973	1974	1975	1976
Total	178,904	212,855	231,756	257,904	265,208	269,265	280,635	289,204
Full-time	142,713	170,557	187,082	209,416	216,741	218,843	224,784	230,539
Part-time	36,191	42,298	44,674	48,488	48,467	50,422	55,851	58,665
Doctorate in science and engineering	118,233	142,676	154,424	171,238	174,712	175,751	181,523	186,604
Full-time	94,570	114,446	124,604	140,339	143,632	144,836	149,128	154,208
Part-time	23,663	28,230	29,820	30,899	31,080	30,915	32,395	32,396
Master's in science and engineering	21,078	24,729	29,441	30,080	28,703	29,765	34,075	33,150
Full-time	17,434	20,748	25,212	25,597	24,851	24,957	27,511	26,376
Part-time	3,644	3,981	4,229	4,483	3,852	4,808	6,564	6,774
Bachelor's in science and engineering	22,423	23,025	21,690	23,198	28,363	29,187	27,576	28,168
Full-time	18,673	19,328	17,927	19,623	23,620	23,984	22,706	23,031
Part-time	3,750	3,697	3,763	3,575	4,743	5,203	4,870	5,137
No science degree 1/	17,170	22,425	26,201	33,388	33,430	34,562	37,461	41,282
Full-time	12,036	16,035	19,339	23,857	24,638	25,066	25,439	26,924
Part-time	5,134	6,390	6,862	9,531	8,792	9,496	12,022	14,358

1/ Includes two-year institutions as well as institutions awarding degrees in non-science fields.

SOURCE: NATIONAL SCIENCE FOUNDATION

Table B-5. Full-time scientists and engineers employed in universities and colleges, by major field of employment and control: 1969-76

Major field of employment and control	January				Average annual percent change 1969-74	Percent change 1974-75	Percent change 1975-76
	1969	1974	1975	1976			
Total	187,082	218,843	224,784	230,539	3.2	2.7	2.6
Public	120,325	150,902	157,748	162,128	4.6	4.5	2.8
Private	66,757	67,941	67,036	68,411	0.4	-1.3	2.1
Engineers (Total)	21,431	22,764	22,579	22,799	1.2	-0.8	1.0
Public	14,182	16,413	16,574	17,015	3.0	1.0	2.7
Private	7,249	6,351	6,005	5,784	-2.6	-5.4	-3.7
Physical scientists (Total)	29,975	33,412	33,479	34,442	2.2	0.2	2.9
Public	18,571	22,641	22,867	23,846	4.0	1.0	4.3
Private	11,404	10,771	10,612	10,596	-1.1	-1.5	-0.2
Mathematical scientists (Total)	18,390	22,157	22,392	23,081	3.8	1.1	3.1
Public	12,236	16,193	16,591	17,196	5.8	2.5	3.6
Private	6,154	5,964	5,801	5,885	-0.6	-2.7	1.4
Life scientists (Total) ...	74,882	88,900	92,004	92,589	3.5	3.5	0.6
Public	47,868	59,592	63,215	63,080	4.5	6.1	-0.2
Private	27,014	29,308	28,789	29,509	1.6	-1.8	2.5
Psychologists (Total)	11,536	14,957	15,995	16,758	5.3	6.9	4.8
Public	7,468	10,315	11,287	12,037	6.7	9.4	6.6
Private	4,068	4,642	4,708	4,721	2.7	1.4	0.3
Social scientists (Total) .	30,868	36,653	38,335	40,870	3.5	4.6	6.6
Public	20,000	25,748	27,214	28,954	5.2	5.7	6.4
Private	10,868	10,905	11,121	11,916	0.1	2.0	7.1

SOURCE: NATIONAL SCIENCE FOUNDATION

Table B-6 Full-time scientists and engineers employed in universities and colleges, by control and level of attainment: 1969-76

Control and level of attainment	January				Average annual Percent change	Percent change	Percent change
	1969	1974	1975	1976	1969-74	1974-75	1975-76
Total.....	187,082	218,843	224,784	230,539	3.2	2.7	2.6
Ph.D., Sc. D.	90,228	118,369	122,936	126,160	5.6	3.9	2.6
Ed. D., J.D.	NA	NA	NA	3,393	NA	NA	NA
M.D., D.D.S., etc. .	26,090	29,170	29,563	30,369	2.3	1.3	2.7
Master's	52,362	54,166	54,908	53,947	0.7	1.4	-1.8
Bachelor's	18,402	17,138	17,377	16,670	-1.4	1.4	-4.1
Public (Total)	120,325	150,902	157,748	162,128	4.6	4.5	2.8
Ph.D., Sc. D.	57,145	80,533	84,589	86,961	7.1	5.0	2.8
Ed. D., J.D.	NA	NA	NA	2,709	NA	NA	NA
M.D., D.D.S., etc. .	12,989	15,382	15,812	16,575	3.4	2.8	4.8
Master's	37,081	41,956	43,497	42,958	2.5	3.7	-1.2
Bachelor's	13,110	13,031	13,850	12,925	-0.1	6.3	-6.7
Private (Total)	66,757	67,941	67,036	68,411	0.4	-1.3	2.1
Ph. D., Sc. D.	33,083	37,836	38,347	39,199	2.7	1.4	2.2
Ed. D., J.D.	NA	NA	NA	684	NA	NA	NA
M.D., D.D.S., etc. .	13,101	13,788	13,751	13,794	1.0	-0.3	0.3
Master's	15,281	12,210	11,411	10,989	4.4	-6.5	-3.7
Bachelor's	5,292	4,107	3,527	3,745	4.9	-14.1	6.2

SOURCE: NATIONAL SCIENCE FOUNDATION

Table B-7. Full-time scientists and engineers employed in universities and colleges, by field of employment and sex: January 1974-76

Field of employment	1974			1975			1976		
	TOTAL	MEN	WOMEN	TOTAL	MEN	WOMEN	TOTAL	MEN	WOMEN
Total	218,843	186,401	32,442	224,784	190,651	34,133	230,539	194,610	35,929
Engineers (Total)	22,764	22,425	339	22,579	22,210	369	22,799	22,352	447
Aeronautical & astronautical engineers	1,023	1,001	22	944	919	25	963	935	28
Chemical engineers	1,522	1,500	22	1,603	1,578	25	1,622	1,585	37
Civil engineers	3,759	3,698	61	3,830	3,769	61	4,008	3,925	83
Electrical engineers	5,404	5,347	57	5,394	5,337	57	5,393	5,319	74
Mechanical engineers	4,255	4,222	33	4,355	4,325	30	4,351	4,306	45
Other engineers	6,801	6,657	144	6,453	6,282	171	6,462	6,282	180
Physical scientists (Total) ..	33,412	31,146	2,266	33,479	31,158	2,321	34,442	31,942	2,500
Chemists	14,075	12,690	1,385	13,826	12,395	1,431	14,172	12,651	1,521
Earth scientists 1/.....	6,563	6,236	327	6,789	6,469	320	7,260	6,881	379
Physicists	10,870	10,475	395	10,941	10,554	387	10,867	10,465	402
Other physical scientists ..	1,904	1,745	159	1,923	1,740	183	2,143	1,945	198
Mathematical scientists (Total)	22,157	19,335	2,822	22,392	19,467	2,925	23,081	19,988	3,093
Life scientists (Total)	88,900	70,844	18,056	92,004	73,447	18,557	92,589	73,910	18,679
Agricultural scientists	12,781	11,320	1,461	13,613	11,817	1,796	12,963	11,546	1,417
Biological scientists	31,539	25,804	5,735	33,490	27,116	6,374	34,744	27,757	6,987
Medical scientists	44,580	33,720	10,860	44,901	34,514	10,387	44,882	34,607	10,275
Psychologists (Total)	14,957	11,769	3,188	15,995	12,407	3,588	16,758	12,781	3,977
Social scientists (Total)	36,653	30,882	5,771	38,335	31,962	6,373	40,870	33,637	7,233
Economists	9,830	9,042	788	10,190	9,327	863	10,410	9,458	952
Sociologists	10,048	7,672	2,376	10,765	8,129	2,636	11,389	8,472	2,917
Political scientists	8,396	7,533	863	8,692	7,796	896	9,027	7,999	1,028
Other social scientists	8,379	6,635	1,744	8,688	6,710	1,978	10,044	7,708	2,336

1/ Includes data for atmospheric scientists and oceanographers

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-8. SCIENTISTS AND ENGINEERS EMPLOYED IN INSTITUTIONS AWARDING DOCTORATE DEGREES IN THE SCIENCES OR ENGINEERING, BY FIELD OF EMPLOYMENT, CONTROL, AND EMPLOYMENT STATUS: JANUARY 1976

FIELD OF EMPLOYMENT	PUBLIC			PRIVATE		
	TOTAL	FULL-TIME	PART-TIME	TOTAL	FULL-TIME	PART-TIME
TOTAL	125,140	107,473	17,667	61,464	46,735	14,729
ENGINEERS (TOTAL)	13,866	12,193	1,673	5,940	4,671	1,269
AERONAUTICAL & ASTRONAUTICAL ENGINEERS	512	475	37	351	299	52
CHEMICAL ENGINEERS	1,079	978	101	507	443	64
CIVIL ENGINEERS	2,515	2,235	280	879	635	244
ELECTRICAL ENGINEERS	2,629	2,346	283	1,665	1,254	411
MECHANICAL ENGINEERS	2,378	2,135	243	1,061	850	211
OTHER ENGINEERS	4,753	4,024	729	1,477	1,190	287
PHYSICAL SCIENTISTS (TOTAL)	11,567	10,313	1,254	5,709	5,185	524
CHEMISTS	5,688	4,972	716	2,765	2,477	288
PHYSICISTS	4,631	4,235	396	2,536	2,345	191
OTHER PHYSICAL SCIENTISTS	1,248	1,106	142	408	363	45
ENVIRONMENTAL SCIENTISTS (TOTAL)	4,085	3,703	382	1,200	1,061	139
EARTH SCIENTISTS	2,883	2,611	272	834	717	117
ATMOSPHERIC SCIENTISTS	447	388	59	103	97	6
OCEANOGRAPHERS	755	704	51	263	247	16
MATHEMATICAL SCIENTISTS (TOTAL)	8,636	7,686	950	3,467	2,707	760
MATHEMATICIANS (EXCLUDING COMPUTER SCIENTISTS)	6,721	6,003	718	2,542	2,095	447
COMPUTER SCIENTISTS (EXCLUDING PROGRAMMERS)	1,915	1,683	232	925	612	313
LIFE SCIENTISTS (TOTAL)	62,464	52,372	10,092	34,937	25,576	9,361
AGRICULTURAL SCIENTISTS	11,782	11,028	754	416	405	11
BIOLOGICAL SCIENTISTS	17,073	15,513	1,560	9,384	8,270	1,114
MEDICAL SCIENTISTS	33,609	25,831	7,778	25,137	16,901	8,236
PSYCHOLOGISTS (TOTAL)	6,453	5,450	1,003	3,033	2,029	1,004
SOCIAL SCIENTISTS (TOTAL)	18,069	15,756	2,313	7,178	5,506	1,672
ECONOMISTS	4,840	4,399	441	2,020	1,570	450
SOCIOLOGISTS	4,495	3,789	706	1,726	1,364	362
POLITICAL SCIENTISTS	3,309	2,957	352	1,793	1,315	478
OTHER SOCIAL SCIENTISTS	5,425	4,611	814	1,639	1,257	382

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-9. SCIENTISTS AND ENGINEERS EMPLOYED IN INSTITUTIONS AWARDING MASTER'S DEGREES IN THE SCIENCES OR ENGINEERING, BY FIELD OF EMPLOYMENT, CONTROL, AND EMPLOYMENT STATUS: JANUARY 1976

FIELD OF EMPLOYMENT	PUBLIC			PRIVATE		
	TOTAL	FULL-TIME	PART-TIME	TOTAL	FULL-TIME	PART-TIME
TOTAL	25,591	21,242	4,349	7,559	5,134	2,425
ENGINEERS (TOTAL)	1,519	1,149	370	608	427	181
AERONAUTICAL & ASTRONAUTICAL ENGINEERS	40	29	11	9	3	6
CHEMICAL ENGINEERS	59	54	5	37	30	7
CIVIL ENGINEERS	350	253	97	93	64	29
ELECTRICAL ENGINEERS	376	285	91	201	153	48
MECHANICAL ENGINEERS	282	223	59	186	136	50
OTHER ENGINEERS	412	305	107	82	41	41
PHYSICAL SCIENTISTS (TOTAL)	3,487	2,992	495	1,075	884	191
CHEMISTS	1,974	1,690	284	583	495	88
PHYSICISTS	1,313	1,153	160	424	347	77
OTHER PHYSICAL SCIENTISTS	200	149	51	68	42	26
ENVIRONMENTAL SCIENTISTS (TOTAL)	1,228	1,060	168	169	118	51
EARTH SCIENTISTS	1,102	965	137	161	111	50
ATMOSPHERIC SCIENTISTS	53	47	6	2	1	1
OCEANOGRAPHERS	73	48	25	6	6	0
MATHEMATICAL SCIENTISTS (TOTAL)	3,953	3,296	657	912	671	241
MATHEMATICIANS (EXCLUDING COMPUTER SCIENTISTS)	3,362	2,829	533	732	560	172
COMPUTER SCIENTISTS (EXCLUDING PROGRAMMERS)	591	467	124	180	111	69
LIFE SCIENTISTS (TOTAL)	4,444	3,731	713	898	740	158
AGRICULTURAL SCIENTISTS	617	559	58	19	11	8
BIOLOGICAL SCIENTISTS	3,355	2,851	504	744	640	104
MEDICAL SCIENTISTS	472	321	151	135	89	46
PSYCHOLOGISTS (TOTAL)	3,652	3,002	650	1,110	632	478
SOCIAL SCIENTISTS (TOTAL)	7,308	6,012	1,296	2,787	1,662	1,125
ECONOMISTS	1,657	1,312	345	766	425	341
SOCIOLOGISTS	2,311	1,882	429	832	444	388
POLITICAL SCIENTISTS	1,640	1,425	215	531	365	166
OTHER SOCIAL SCIENTISTS	1,700	1,393	307	658	428	230

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-10. SCIENTISTS AND ENGINEERS EMPLOYED IN INSTITUTIONS AWARDING BACHELOR'S DEGREES IN THE SCIENCES OR ENGINEERING, BY FIELD OF EMPLOYMENT, CONTROL, AND EMPLOYMENT STATUS: JANUARY 1976

FIELD OF EMPLOYMENT	PUBLIC			PRIVATE		
	TOTAL	FULL-TIME	PART-TIME	TOTAL	FULL-TIME	PART-TIME
TOTAL	9,517	8,400	1,117	18,651	14,631	4,020
ENGINEERS (TOTAL)	823	756	67	637	519	118
AERONAUTICAL & ASTRONAUTICAL ENGINEERS	52	46	6	18	18	0
CHEMICAL ENGINEERS	20	18	2	20	20	0
CIVIL ENGINEERS	140	127	13	100	77	23
ELECTRICAL ENGINEERS	178	168	10	230	186	44
MECHANICAL ENGINEERS	161	143	18	153	127	26
OTHER ENGINEERS	272	254	18	116	91	25
PHYSICAL SCIENTISTS (TOTAL)	1,437	1,348	89	3,210	2,754	456
CHEMISTS	781	721	60	2,007	1,736	271
PHYSICISTS	516	494	22	1,115	964	151
OTHER PHYSICAL SCIENTISTS	140	133	7	88	54	34
ENVIRONMENTAL SCIENTISTS (TOTAL)	359	321	38	379	288	91
EARTH SCIENTISTS	305	270	35	363	281	82
ATMOSPHERIC SCIENTISTS	16	16	0	11	6	5
OCEANOGRAPHERS	38	35	3	5	1	4
MATHEMATICAL SCIENTISTS (TOTAL)	1,656	1,426	230	2,776	2,192	584
MATHEMATICIANS (EXCLUDING COMPUTER SCIENTISTS)	1,454	1,248	206	2,379	1,939	440
COMPUTER SCIENTISTS (EXCLUDING PROGRAMMERS)	202	178	24	397	253	144
LIFE SCIENTISTS (TOTAL)	1,446	1,343	103	3,329	2,757	572
AGRICULTURAL SCIENTISTS	117	112	5	65	62	3
BIOLOGICAL SCIENTISTS	1,170	1,094	76	2,829	2,408	421
MEDICAL SCIENTISTS	159	137	22	435	287	148
PSYCHOLOGISTS (TOTAL)	1,161	949	212	2,602	1,844	758
SOCIAL SCIENTISTS (TOTAL)	2,635	2,257	378	5,718	4,277	1,441
ECONOMISTS	579	496	83	1,606	1,192	414
SOCIOLOGISTS	877	730	147	2,032	1,467	565
POLITICAL SCIENTISTS	630	542	88	1,427	1,129	298
OTHER SOCIAL SCIENTISTS	549	489	60	653	489	164

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-11. SCIENTISTS AND ENGINEERS EMPLOYED IN INSTITUTIONS AWARDING DEGREES IN FIELDS OTHER THAN THE SCIENCES OR ENGINEERING, BY FIELD OF EMPLOYMENT, CONTROL, AND EMPLOYMENT STATUS: JANUARY 1976

FIELD OF EMPLOYMENT	PUBLIC			PRIVATE		
	TOTAL	FULL-TIME	PART-TIME	TOTAL	FULL-TIME	PART-TIME
TOTAL	357	152	205	571	348	223
ENGINEERS (TOTAL)	36	33	3	4	2	2
AERONAUTICAL & ASTRONAUTICAL ENGINEERS	0	0	0	0	0	0
CHEMICAL ENGINEERS	2	2	0	0	0	0
CIVIL ENGINEERS	15	14	1	0	0	0
ELECTRICAL ENGINEERS	6	5	1	4	2	2
MECHANICAL ENGINEERS	10	9	1	0	0	0
OTHER ENGINEERS	3	3	0	0	0	0
PHYSICAL SCIENTISTS (TOTAL)	27	8	19	36	31	5
CHEMISTS	9	4	5	18	17	1
PHYSICISTS	7	4	3	14	12	2
OTHER PHYSICAL SCIENTISTS	11	0	11	4	2	2
ENVIRONMENTAL SCIENTISTS (TOTAL)	22	9	13	17	11	6
EARTH SCIENTISTS	17	6	11	17	11	6
ATMOSPHERIC SCIENTISTS	4	3	1	0	0	0
OCEANOGRAPHERS	1	0	1	0	0	0
MATHEMATICAL SCIENTISTS (TOTAL)	49	16	33	92	65	27
MATHEMATICIANS (EXCLUDING COMPUTER SCIENTISTS)	39	14	25	79	56	23
COMPUTER SCIENTISTS (EXCLUDING PROGRAMMERS)	10	2	8	13	9	4
LIFE SCIENTISTS (TOTAL)	42	27	15	189	59	130
AGRICULTURAL SCIENTISTS	1	1	0	0	0	0
BIOLOGICAL SCIENTISTS	41	26	15	87	46	41
MEDICAL SCIENTISTS	0	0	0	102	13	89
PSYCHOLOGISTS (TOTAL)	57	17	40	85	61	24
SOCIAL SCIENTISTS (TOTAL)	124	42	82	148	119	29
ECONOMISTS	23	12	11	51	43	8
SOCIOLOGISTS	31	16	15	38	31	7
POLITICAL SCIENTISTS	25	11	14	38	27	11
OTHER SOCIAL SCIENTISTS	45	3	42	21	18	3

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-12. SCIENTISTS AND ENGINEERS EMPLOYED IN 2-YEAR INSTITUTIONS, BY FIELD OF EMPLOYMENT, CONTROL, AND EMPLOYMENT STATUS: JANUARY 1976

FIELD OF EMPLOYMENT	PUBLIC			PRIVATE		
	TOTAL	FULL-TIME	PART-TIME	TOTAL	FULL-TIME	PART-TIME
TOTAL	38,170	24,861	13,309	2,184	1,563	621
ENGINEERS (TOTAL)	4,665	2,884	1,781	198	165	33
AERONAUTICAL & ASTRONAUTICAL ENGINEERS	136	85	51	9	8	1
CHEMICAL ENGINEERS	92	62	30	17	15	2
CIVIL ENGINEERS	864	573	291	39	30	9
ELECTRICAL ENGINEERS	1,557	934	623	69	60	9
MECHANICAL ENGINEERS	1,021	701	320	38	27	11
OTHER ENGINEERS	995	529	466	26	25	1
PHYSICAL SCIENTISTS (TOTAL)	4,634	3,426	1,208	315	241	74
CHEMISTS	2,589	1,933	656	179	127	52
PHYSICISTS	1,572	1,219	353	112	94	18
OTHER PHYSICAL SCIENTISTS	473	274	199	24	20	4
ENVIRONMENTAL SCIENTISTS (TOTAL)	971	666	305	32	23	9
EARTH SCIENTISTS	847	598	249	28	22	6
ATMOSPHERIC SCIENTISTS	57	18	39	1	1	0
OCEANOGRAPHERS	67	50	17	3	0	3
MATHEMATICAL SCIENTISTS (TOTAL)	7,892	4,772	3,120	365	250	115
MATHEMATICIANS (EXCLUDING COMPUTER SCIENTISTS)	6,396	3,984	2,412	326	224	102
COMPUTER SCIENTISTS (EXCLUDING PROGRAMMERS)	1,496	788	708	39	26	13
LIFE SCIENTISTS (TOTAL)	7,483	5,607	1,876	491	377	114
AGRICULTURAL SCIENTISTS	1,097	753	344	40	32	8
BIOLOGICAL SCIENTISTS	4,711	3,625	1,086	340	271	69
MEDICAL SCIENTISTS	1,675	1,229	446	111	74	37
PSYCHOLOGISTS (TOTAL)	4,454	2,619	1,835	250	155	95
SOCIAL SCIENTISTS (TOTAL)	8,071	4,887	3,184	533	352	181
ECONOMISTS	1,530	897	633	98	64	34
SOCIOLOGISTS	2,629	1,542	1,087	188	124	64
POLITICAL SCIENTISTS	1,818	1,186	632	98	70	28
OTHER SOCIAL SCIENTISTS	2,094	1,262	832	149	94	55

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-13. SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY FIELD OF EMPLOYMENT AND FUNCTION: JANUARY 1975-76

FIELD OF EMPLOYMENT	TOTAL		FUNCTION					
	1975	1976	TEACHING		RESEARCH & DEVELOPMENT		OTHER ACTIVITIES	
			1975	1976	1975	1976	1975	1976
TOTAL	280,635	289,204	215,776	223,216	49,975	50,994	14,884	14,994
ENGINEERS (TOTAL)	27,845	28,296	22,122	22,570	4,790	4,720	933	1,006
AERONAUTICAL & ASTRONAUTICAL ENGINEERS	1,094	1,127	799	825	283	286	12	16
CHEMICAL ENGINEERS	1,856	1,833	1,475	1,460	324	322	57	51
CIVIL ENGINEERS	4,853	4,995	4,206	4,357	523	493	124	145
ELECTRICAL ENGINEERS	6,758	6,915	5,534	5,717	1,051	1,031	173	167
MECHANICAL ENGINEERS	5,286	5,290	4,540	4,493	626	637	120	160
OTHER ENGINEERS	7,998	8,136	5,568	5,718	1,983	1,951	447	467
PHYSICAL SCIENTISTS (TOTAL)	30,840	31,497	24,218	24,538	6,124	6,417	498	542
CHEMISTS	16,134	16,593	13,075	13,322	2,772	2,939	287	332
PHYSICISTS	12,319	12,240	9,742	9,676	2,423	2,405	154	159
OTHER PHYSICAL SCIENTISTS	2,387	2,664	1,401	1,540	929	1,073	57	51
ENVIRONMENTAL SCIENTISTS (TOTAL)	7,842	8,462	5,747	6,118	1,937	2,171	158	173
EARTH SCIENTISTS	5,986	6,557	4,942	5,323	927	1,104	117	130
ATMOSPHERIC SCIENTISTS	682	694	396	383	265	297	21	14
OCEANOGRAPHERS	1,174	1,211	409	412	745	770	20	29
MATHEMATICAL SCIENTISTS (TOTAL)	28,414	29,798	26,093	27,516	1,528	1,646	793	836
MATHEMATICIANS (EXCLUDING COMPUTER SCIENTISTS)	23,322	24,030	22,284	22,917	796	893	242	220
COMPUTER SCIENTISTS (EXCLUDING PROGRAMMERS)	5,092	5,768	3,809	4,399	732	753	551	616
LIFE SCIENTISTS (TOTAL)	115,254	115,723	74,876	75,872	30,624	30,751	9,754	9,100
AGRICULTURAL SCIENTISTS	14,627	14,154	4,495	5,019	4,456	4,535	5,676	4,600
BIOLOGICAL SCIENTISTS	38,192	39,734	26,580	27,578	10,706	11,146	906	1,010
MEDICAL SCIENTISTS	62,435	61,835	43,801	43,275	15,462	15,070	3,172	3,490
PSYCHOLOGISTS (TOTAL)	21,665	22,857	18,791	19,722	1,450	1,523	1,424	1,612
SOCIAL SCIENTISTS (TOTAL)	48,775	52,571	43,929	47,080	3,522	3,766	1,324	1,725
ECONOMISTS	12,667	13,170	10,953	11,379	1,233	1,260	481	531
SOCIOLOGISTS	14,230	15,159	13,274	14,064	702	760	254	335
POLITICAL SCIENTISTS	10,555	11,309	9,890	10,501	475	514	190	294
OTHER SOCIAL SCIENTISTS	11,323	12,933	9,812	11,136	1,112	1,232	399	565

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-14. FULL-TIME SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY FIELD OF EMPLOYMENT AND FUNCTION: JANUARY 1975-76

FIELD OF EMPLOYMENT	TOTAL		FUNCTION					
			TEACHING		RESEARCH & DEVELOPMENT		OTHER ACTIVITIES	
	1975	1976	1975	1976	1975	1976	1975	1976
TOTAL	224,784	230,539	167,715	172,384	43,436	44,549	13,633	13,606
ENGINEERS (TOTAL)	22,579	22,799	17,657	17,856	4,034	4,012	888	931
AERONAUTICAL & ASTRONAUTICAL ENGINEERS	944	963	688	696	246	256	10	11
CHEMICAL ENGINEERS	1,603	1,622	1,282	1,281	266	292	55	49
CIVIL ENGINEERS	3,830	4,008	3,274	3,425	436	443	120	140
ELECTRICAL ENGINEERS	5,394	5,393	4,321	4,338	908	897	165	158
MECHANICAL ENGINEERS	4,355	4,351	3,711	3,669	528	530	116	152
OTHER ENGINEERS	6,453	6,462	4,381	4,447	1,650	1,594	422	421
PHYSICAL SCIENTISTS (TOTAL)	26,690	27,182	20,841	21,044	5,392	5,645	457	493
CHEMISTS	13,826	14,172	11,202	11,347	2,364	2,531	260	294
PHYSICISTS	10,941	10,867	8,588	8,535	2,209	2,179	144	153
OTHER PHYSICAL SCIENTISTS	1,923	2,143	1,051	1,162	819	935	53	46
ENVIRONMENTAL SCIENTISTS (TOTAL)	6,789	7,260	4,933	5,186	1,709	1,909	147	165
EARTH SCIENTISTS	5,174	5,592	4,257	4,519	806	947	111	126
ATMOSPHERIC SCIENTISTS	559	577	319	316	221	248	19	13
OCEANOGRAPHERS	1,056	1,091	357	351	682	714	17	26
MATHEMATICAL SCIENTISTS (TOTAL)	22,392	23,081	20,342	20,884	1,361	1,489	689	708
MATHEMATICIANS (EXCLUDING COMPUTER SCIENTISTS)	18,689	18,952	17,757	17,969	710	813	222	170
COMPUTER SCIENTISTS (EXCLUDING PROGRAMMERS)	3,703	4,129	2,585	2,915	651	676	467	538
LIFE SCIENTISTS (TOTAL)	92,004	92,589	56,032	57,015	26,905	27,104	9,067	8,470
AGRICULTURAL SCIENTISTS	13,613	12,963	3,896	4,258	4,143	4,197	5,574	4,508
BIOLOGICAL SCIENTISTS	33,490	34,744	23,024	23,730	9,649	10,075	817	939
MEDICAL SCIENTISTS	44,901	44,882	29,112	29,027	13,113	12,832	2,676	3,023
PSYCHOLOGISTS (TOTAL)	15,995	16,758	13,678	14,189	1,124	1,215	1,193	1,354
SOCIAL SCIENTISTS (TOTAL)	38,335	40,870	34,232	36,210	2,911	3,175	1,192	1,485
ECONOMISTS	10,190	10,410	8,649	8,795	1,102	1,136	439	479
SOCIOLOGISTS	10,765	11,389	9,959	10,472	585	634	221	283
POLITICAL SCIENTISTS	8,692	9,027	8,165	8,418	365	412	162	197
OTHER SOCIAL SCIENTISTS	8,688	10,044	7,459	8,525	859	993	370	526

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-15. SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY FIELD OF EMPLOYMENT, CONTROL, AND EMPLOYMENT STATUS: JANUARY 1976

FIELD OF EMPLOYMENT	PUBLIC			PRIVATE		
	TOTAL	FULL-TIME	PART-TIME	TOTAL	FULL-TIME	PART-TIME
TOTAL	198,775	162,128	36,647	90,429	68,411	22,018
ENGINEERS (TOTAL)	20,909	17,015	3,894	7,387	5,784	1,603
AERONAUTICAL & ASTRONAUTICAL ENGINEERS	740	635	105	387	328	59
CHEMICAL ENGINEERS	1,252	1,114	138	581	508	73
CIVIL ENGINEERS	3,884	3,202	682	1,111	806	305
ELECTRICAL ENGINEERS	4,746	3,738	1,008	2,169	1,655	514
MECHANICAL ENGINEERS	3,852	3,211	641	1,438	1,140	298
OTHER ENGINEERS	6,435	5,115	1,320	1,701	1,347	354
PHYSICAL SCIENTISTS (TOTAL)	21,152	18,087	3,065	10,345	9,095	1,250
CHEMISTS	11,041	9,320	1,721	5,552	4,852	700
PHYSICISTS	8,039	7,105	934	4,201	3,762	439
OTHER PHYSICAL SCIENTISTS	2,072	1,662	410	592	481	111
ENVIRONMENTAL SCIENTISTS (TOTAL)	6,665	5,759	906	1,797	1,501	296
EARTH SCIENTISTS	5,154	4,450	704	1,403	1,142	261
ATMOSPHERIC SCIENTISTS	577	472	105	117	105	12
OCEANOGRAPHERS	934	837	97	277	254	23
MATHEMATICAL SCIENTISTS (TOTAL)	22,186	17,196	4,990	7,612	5,885	1,727
MATHEMATICIANS (EXCLUDING COMPUTER SCIENTISTS)	17,972	14,078	3,894	6,058	4,874	1,184
COMPUTER SCIENTISTS (EXCLUDING PROGRAMMERS)	4,214	3,118	1,096	1,554	1,011	543
LIFE SCIENTISTS (TOTAL)	75,879	63,080	12,799	39,844	29,509	10,335
AGRICULTURAL SCIENTISTS	13,614	12,453	1,161	540	510	30
BIOLOGICAL SCIENTISTS	26,350	23,109	3,241	13,384	11,635	1,749
MEDICAL SCIENTISTS	35,915	27,518	8,397	25,920	17,364	8,556
PSYCHOLOGISTS (TOTAL)	15,777	12,037	3,740	7,080	4,721	2,359
SOCIAL SCIENTISTS (TOTAL)	36,207	28,954	7,253	16,364	11,916	4,448
ECONOMISTS	8,629	7,116	1,513	4,541	3,294	1,247
SOCIOLOGISTS	10,343	7,959	2,384	4,816	3,430	1,386
POLITICAL SCIENTISTS	7,422	6,121	1,301	3,887	2,906	981
OTHER SOCIAL SCIENTISTS	9,813	7,758	2,055	3,120	2,286	834

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-16. SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY TYPE OF INSTITUTION, EMPLOYMENT STATUS, CONTROL, AND FUNCTION: JANUARY 1976

TYPE OF INSTITUTION AND EMPLOYMENT STATUS	PUBLIC				PRIVATE			
	TOTAL	TEACHING	RESEARCH & DEVELOPMENT	OTHER ACTIVITIES	TOTAL	TEACHING	RESEARCH & DEVELOPMENT	OTHER ACTIVITIES
ALL INSTITUTIONS								
TOTAL	198,775	155,309	31,359	12,107	90,429	67,907	19,635	2,887
FULL-TIME	162,128	123,896	26,980	11,252	68,411	48,488	17,569	2,354
PART-TIME	36,647	31,413	4,379	855	22,018	19,419	2,066	533
INSTITUTIONS GRANTING:								
DOCTORATE IN S&E								
TOTAL	125,140	84,001	30,626	10,513	61,464	39,866	19,342	2,256
FULL-TIME	107,473	71,411	26,320	9,742	46,735	27,581	17,333	1,821
PART-TIME	17,667	12,590	4,306	771	14,729	12,285	2,009	435
MASTER'S IN S&E								
TOTAL	25,591	24,567	528	496	7,559	7,363	44	152
FULL-TIME	21,242	20,297	466	479	5,134	4,982	31	121
PART-TIME	4,349	4,270	62	17	2,425	2,381	13	31
BACHELOR'S IN S&E								
TOTAL	9,517	9,115	153	249	18,651	18,053	206	392
FULL-TIME	8,400	8,028	146	226	14,631	14,128	165	338
PART-TIME	1,117	1,087	7	23	4,020	3,925	41	54
OTHER DEGREES								
TOTAL	357	286	3	68	571	548	1	22
FULL-TIME	152	81	3	68	348	328	1	19
PART-TIME	205	205	0	0	223	220	0	3
2-YEAR INSTITUTIONS								
TOTAL	38,170	37,340	49	781	2,184	2,077	42	65
FULL-TIME	24,861	24,079	45	737	1,563	1,469	39	55
PART-TIME	13,309	13,261	4	44	621	608	3	10

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-17. SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY TYPE OF INSTITUTION, EMPLOYMENT STATUS, AND FUNCTION: JANUARY 1975-76

TYPE OF INSTITUTION AND EMPLOYMENT STATUS	TOTAL		FUNCTION					
			TEACHING		RESEARCH & DEVELOPMENT		OTHER ACTIVITIES	
	1975	1976	1975	1976	1975	1976	1975	1976
ALL INSTITUTIONS								
TOTAL	280,635	289,204	215,776	223,216	49,975	50,994	14,884	14,994
FULL-TIME	224,784	230,539	167,715	172,384	43,436	44,549	13,633	13,606
PART-TIME	55,851	58,665	48,061	50,832	6,539	6,445	1,251	1,388
INSTITUTIONS GRANTING:								
DOCTORATE IN S&E								
TOTAL	181,523	186,604	119,983	123,867	48,729	49,968	12,811	12,769
FULL-TIME	149,128	154,208	95,051	98,992	42,322	43,653	11,755	11,563
PART-TIME	32,395	32,396	24,932	24,875	6,407	6,315	1,056	1,206
MASTER'S IN S&E								
TOTAL	34,075	33,150	32,451	31,930	768	572	856	648
FULL-TIME	27,511	26,376	26,021	25,279	698	497	792	600
PART-TIME	6,564	6,774	6,430	6,651	70	75	64	48
BACHELOR'S IN S&E								
TOTAL	27,576	28,168	26,659	27,168	384	359	533	641
FULL-TIME	22,706	23,031	21,944	22,156	327	311	435	564
PART-TIME	4,870	5,137	4,715	5,012	57	48	98	77
OTHER DEGREES								
TOTAL	1,345	928	1,323	834	2	4	20	90
FULL-TIME	828	500	806	409	2	4	20	87
PART-TIME	517	428	517	425	0	0	0	3
2-YEAR INSTITUTIONS								
TOTAL	36,116	40,354	35,360	39,417	92	91	664	846
FULL-TIME	24,611	26,424	23,893	25,548	87	84	631	792
PART-TIME	11,505	13,930	11,467	13,869	5	7	33	54

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-18. SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY TYPE OF INSTITUTION, EMPLOYMENT STATUS, AND MAJOR FIELD OF EMPLOYMENT: JANUARY 1976

TYPE OF INSTITUTION AND EMPLOYMENT STATUS	TOTAL	ENGINEERS	PHYSICAL SCIENTISTS	ENVIRON-MENTAL SCIENTISTS	MATHE-MATICAL SCIENTISTS	LIFE SCIENTISTS	PSYCHO-LOGISTS	SOCIAL SCIENTISTS
ALL INSTITUTIONS								
TOTAL	289,204	28,296	31,497	8,462	29,798	115,723	22,857	52,571
FULL-TIME	230,539	22,799	27,182	7,260	23,081	92,589	16,758	40,870
PART-TIME	58,665	5,497	4,315	1,202	6,717	23,134	6,099	11,701
INSTITUTIONS GRANTING:								
DOCTORATE IN S&E								
TOTAL	186,604	19,806	17,276	5,285	12,103	97,401	9,486	25,247
FULL-TIME	154,208	16,864	15,498	4,764	10,393	77,948	7,479	21,262
PART-TIME	32,396	2,942	1,778	521	1,710	19,453	2,007	3,985
MASTER'S IN S&E								
TOTAL	33,150	2,127	4,562	1,397	4,865	5,342	4,762	10,095
FULL-TIME	26,376	1,576	3,876	1,178	3,967	4,471	3,634	7,674
PART-TIME	6,774	551	686	219	898	871	1,128	2,421
BACHELOR'S IN S&E								
TOTAL	28,168	1,460	4,647	738	4,432	4,775	3,763	8,353
FULL-TIME	23,031	1,275	4,102	609	3,618	4,100	2,793	6,534
PART-TIME	5,137	185	545	129	814	675	970	1,819
OTHER DEGREES								
TOTAL	928	40	63	39	141	231	142	272
FULL-TIME	500	35	39	20	81	86	78	161
PART-TIME	428	5	24	19	60	145	64	111
2-YEAR INSTITUTIONS								
TOTAL	40,354	4,863	4,949	1,003	8,257	7,974	4,704	8,604
FULL-TIME	26,424	3,049	3,667	689	5,022	5,984	2,774	5,239
PART-TIME	13,930	1,814	1,282	314	3,235	1,990	1,930	3,365

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-19. SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY TYPE OF INSTITUTION, EMPLOYMENT STATUS, AND LEVEL OF EDUCATIONAL ATTAINMENT: JANUARY 1975-76

TYPE OF INSTITUTION AND EMPLOYMENT STATUS	TOTAL		LEVEL OF ATTAINMENT									
			PH. D. OR SC. D.		ED.D., J.D., ETC.		M.D., D.D.S. ETC.		MASTER'S		BACHELOR'S	
	1975	1976	1975	1976	1975	1976	1975	1976	1975	1976	1975	1976
ALL INSTITUTIONS												
TOTAL	280,635	289,204	136,810	139,936	NA	4,371	44,558	45,113	74,790	75,490	24,477	24,294
FULL-TIME	224,784	230,539	122,936	126,160	NA	3,393	29,563	30,369	54,908	53,947	17,377	16,670
PART-TIME	55,851	58,665	13,874	13,776	NA	978	14,995	14,744	19,882	21,543	7,100	7,624
INSTITUTIONS GRANTING:												
DOCTORATE IN S&E												
TOTAL	181,523	186,604	95,906	99,132	NA	1,587	43,045	43,680	26,805	26,774	15,767	15,431
FULL-TIME	149,128	154,208	87,147	90,570	NA	1,219	28,795	29,489	20,457	20,641	12,729	12,289
PART-TIME	32,395	32,396	8,759	8,562	NA	368	14,250	14,191	6,348	6,133	3,038	3,142
MASTER'S IN S&E												
TOTAL	34,075	33,150	20,743	19,992	NA	1,087	253	220	11,050	10,096	2,029	1,755
FULL-TIME	27,511	26,376	18,614	17,914	NA	880	164	111	7,850	6,803	883	668
PART-TIME	6,564	6,774	2,129	2,078	NA	207	89	109	3,200	3,293	1,146	1,087
BACHELOR'S IN S&E												
TOTAL	27,576	28,168	14,916	15,219	NA	836	663	562	10,589	10,162	1,408	1,389
FULL-TIME	22,706	23,031	13,493	13,757	NA	661	260	373	8,043	7,399	910	841
PART-TIME	4,870	5,137	1,423	1,462	NA	175	403	189	2,546	2,763	498	548
OTHER DEGREES												
TOTAL	1,345	928	670	406	NA	17	97	104	514	367	64	54
FULL-TIME	828	500	429	249	NA	11	19	18	349	204	31	18
PART-TIME	517	428	241	157	NA	6	78	86	165	143	33	36
2-YEAR INSTITUTIONS												
TOTAL	36,116	40,354	4,575	5,187	NA	844	500	547	25,832	28,111	5,209	5,665
FULL-TIME	24,611	26,424	3,253	3,670	NA	622	325	378	18,209	18,900	2,824	2,854
PART-TIME	11,505	13,930	1,322	1,517	NA	222	175	169	7,623	9,211	2,385	2,811

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-20. FTE SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY TYPE OF INSTITUTION, EMPLOYMENT STATUS, AND FUNCTION: JANUARY 1976

TYPE OF INSTITUTION AND EMPLOYMENT STATUS	FULL-TIME EQUIVALENT			
	TOTAL	TEACHING	RESEARCH & DEVELOPMENT	OTHER ACTIVITIES
ALL INSTITUTIONS				
TOTAL	253,357	183,617	53,515	16,225
FULL-TIME	230,539	164,874	50,166	15,499
PART-TIME	22,818	18,743	3,349	726
INSTITUTIONS GRANTING:				
DOCTORATE IN S&E				
TOTAL	167,231	101,157	52,165	13,909
FULL-TIME	154,208	92,055	48,875	13,278
PART-TIME	13,023	9,102	3,290	631
MASTER'S IN S&E				
TOTAL	28,788	27,190	855	743
FULL-TIME	26,376	24,835	820	721
PART-TIME	2,412	2,355	35	22
BACHELOR'S IN S&E				
TOTAL	25,365	24,338	406	621
FULL-TIME	23,031	22,062	386	583
PART-TIME	2,334	2,276	20	38
OTHER DEGREES				
TOTAL	618	522	6	90
FULL-TIME	500	405	6	89
PART-TIME	118	117	0	1
2-YEAR INSTITUTIONS				
TOTAL	31,355	30,410	83	862
FULL-TIME	26,424	25,517	79	828
PART-TIME	4,931	4,893	4	34

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-21. SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY FIELD OF EMPLOYMENT, CONTROL, AND FUNCTION: JANUARY 1976

FIELD OF EMPLOYMENT	PUBLIC				PRIVATE			
	TOTAL	TEACHING	RESEARCH & DEVELOPMENT	OTHER ACTIVITIES	TOTAL	TEACHING	RESEARCH & DEVELOPMENT	OTHER ACTIVITIES
TOTAL	198,775	155,309	31,359	12,107	90,429	67,907	19,635	2,887
ENGINEERS (TOTAL)	20,909	17,260	2,846	803	7,387	5,310	1,874	203
AERONAUTICAL & ASTRONAUTICAL ENGINEERS	740	637	93	10	387	188	193	6
CHEMICAL ENGINEERS	1,252	1,019	189	44	581	441	133	7
CIVIL ENGINEERS	3,884	3,391	366	127	1,111	966	127	18
ELECTRICAL ENGINEERS	4,746	4,155	481	110	2,169	1,562	550	57
MECHANICAL ENGINEERS	3,852	3,362	363	127	1,438	1,131	274	33
OTHER ENGINEERS	6,435	4,696	1,354	385	1,701	1,022	597	82
PHYSICAL SCIENTISTS (TOTAL)	21,152	16,968	3,787	397	10,345	7,570	2,630	145
CHEMISTS	11,041	9,142	1,660	239	5,552	4,180	1,279	93
PHYSICISTS	8,039	6,613	1,307	119	4,201	3,063	1,098	40
OTHER PHYSICAL SCIENTISTS	2,072	1,213	820	39	592	327	253	12
ENVIRONMENTAL SCIENTISTS (TOTAL)	6,665	4,886	1,624	155	1,797	1,232	547	18
EARTH SCIENTISTS	5,154	4,227	810	117	1,403	1,096	294	13
ATMOSPHERIC SCIENTISTS	577	333	233	11	117	50	64	3
OCEANOGRAPHERS	934	326	581	27	277	86	189	2
MATHEMATICAL SCIENTISTS (TOTAL)	22,186	20,615	937	634	7,612	6,701	709	202
MATHEMATICIANS (EXCLUDING COMPUTER SCIENTISTS)	17,972	17,325	466	181	6,058	5,592	427	39
COMPUTER SCIENTISTS (EXCLUDING PROGRAMMERS)	4,214	3,290	471	453	1,554	1,109	282	163
LIFE SCIENTISTS (TOTAL)	75,879	49,863	18,415	7,601	39,844	26,009	12,336	1,499
AGRICULTURAL SCIENTISTS	13,614	4,747	4,364	4,503	540	272	171	97
BIOLOGICAL SCIENTISTS	26,350	18,999	6,557	794	13,384	8,579	4,589	216
MEDICAL SCIENTISTS	35,915	26,117	7,494	2,304	25,920	17,158	7,576	1,186
PSYCHOLOGISTS (TOTAL)	15,777	13,523	986	1,268	7,080	6,199	537	344
SOCIAL SCIENTISTS (TOTAL)	36,207	32,194	2,764	1,249	16,364	14,886	1,002	476
ECONOMISTS	8,629	7,218	1,008	403	4,541	4,161	252	128
SOCIOLOGISTS	10,343	9,614	503	226	4,816	4,450	257	109
POLITICAL SCIENTISTS	7,422	6,911	347	164	3,887	3,590	167	130
OTHER SOCIAL SCIENTISTS	9,813	8,451	906	456	3,120	2,685	326	109

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-22.

FULL-TIME SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY FIELD OF EMPLOYMENT, CONTROL, AND FUNCTION: JANUARY 1976

FIELD OF EMPLOYMENT	PUBLIC				PRIVATE			
	TOTAL	TEACHING	RESEARCH & DEVELOPMENT	OTHER ACTIVITIES	TOTAL	TEACHING	RESEARCH & DEVELOPMENT	OTHER ACTIVITIES
TOTAL	162,128	123,896	26,980	11,252	68,411	48,488	17,569	2,354
ENGINEERS (TOTAL)	17,015	13,899	2,348	768	5,784	3,957	1,664	163
AERONAUTICAL & ASTRONAUTICAL ENGINEERS	635	540	86	9	328	156	170	2
CHEMICAL ENGINEERS	1,114	901	170	43	508	380	122	6
CIVIL ENGINEERS	3,202	2,753	325	124	806	672	118	16
ELECTRICAL ENGINEERS	3,738	3,214	419	105	1,655	1,124	478	53
MECHANICAL ENGINEERS	3,211	2,804	284	123	1,140	865	246	29
OTHER ENGINEERS	5,115	3,687	1,064	364	1,347	760	530	57
PHYSICAL SCIENTISTS (TOTAL)	18,087	14,516	3,208	363	9,095	6,528	2,437	130
CHEMISTS	9,320	7,763	1,345	212	4,852	3,584	1,186	82
PHYSICISTS	7,105	5,833	1,156	116	3,762	2,702	1,023	37
OTHER PHYSICAL SCIENTISTS	1,662	920	707	35	481	242	228	11
ENVIRONMENTAL SCIENTISTS (TOTAL)	5,759	4,215	1,394	150	1,501	971	515	15
EARTH SCIENTISTS	4,450	3,654	681	115	1,142	865	266	11
ATMOSPHERIC SCIENTISTS	472	274	187	11	105	42	61	2
OCEANOGRAPHERS	837	287	526	24	254	64	188	2
MATHEMATICAL SCIENTISTS (TOTAL)	17,196	15,775	839	582	5,885	5,109	650	126
MATHEMATICIANS (EXCLUDING COMPUTER SCIENTISTS)	14,078	13,513	423	142	4,874	4,456	390	28
COMPUTER SCIENTISTS (EXCLUDING PROGRAMMERS)	3,118	2,262	416	440	1,011	653	260	98
LIFE SCIENTISTS (TOTAL)	63,080	39,854	16,103	7,123	29,509	7,161	11,001	1,347
AGRICULTURAL SCIENTISTS	12,453	4,015	4,027	4,411	510	243	170	97
BIOLOGICAL SCIENTISTS	23,109	16,533	5,829	747	11,635	5,197	4,246	192
MEDICAL SCIENTISTS	27,518	19,306	6,247	1,965	17,364	1,721	6,585	1,058
PSYCHOLOGISTS (TOTAL)	12,037	10,160	770	1,107	4,721	4,029	445	247
SOCIAL SCIENTISTS (TOTAL)	28,954	25,477	2,318	1,159	11,916	10,733	857	326
ECONOMISTS	7,116	5,825	908	383	3,294	2,970	228	96
SOCIOLOGISTS	7,959	7,344	422	193	3,430	3,128	212	90
POLITICAL SCIENTISTS	6,121	5,689	276	156	2,906	2,729	136	41
OTHER SOCIAL SCIENTISTS	7,758	6,619	712	427	2,286	1,906	281	99

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-23.

SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY FIELD OF EMPLOYMENT AND TYPE OF INSTITUTION: JANUARY 1975-76

FIELD OF EMPLOYMENT	TOTAL		INSTITUTIONS GRANTING:									
			DOCTORATE IN S&E		MASTER'S IN S&E		BACHELOR'S IN S&E		OTHER DEGREES		2-YEAR INSTITUTIONS	
	1975	1976	1975	1976	1975	1976	1975	1976	1975	1976	1975	1976
TOTAL	280,635	289,204	181,523	186,604	34,075	33,150	27,576	28,168	1,345	928	36,116	40,354
ENGINEERS (TOTAL)	27,845	28,296	19,479	19,806	2,327	2,127	1,576	1,460	16	40	4,447	4,863
AERONAUTICAL & ASTRONAUTICAL ENGINEERS	1,094	1,127	889	863	60	49	63	70	0	0	82	145
CHEMICAL ENGINEERS	1,856	1,833	1,585	1,586	119	96	39	40	0	2	113	109
CIVIL ENGINEERS	4,853	4,995	3,266	3,394	482	443	219	240	1	15	885	903
ELECTRICAL ENGINEERS	6,758	6,915	4,236	4,294	601	577	458	408	8	10	1,455	1,626
MECHANICAL ENGINEERS	5,286	5,290	3,316	3,439	531	468	404	314	3	10	1,032	1,059
OTHER ENGINEERS	7,998	8,136	6,187	6,230	534	494	393	388	4	3	880	1,021
PHYSICAL SCIENTISTS (TOTAL)	30,840	31,497	16,585	17,276	4,781	4,562	4,680	4,647	145	63	4,649	4,949
CHEMISTS	16,134	16,593	8,049	8,453	2,655	2,557	2,778	2,788	74	27	2,578	2,768
PHYSICISTS	12,319	12,240	7,098	7,167	1,850	1,737	1,700	1,631	52	21	1,619	1,684
OTHER PHYSICAL SCIENTISTS	2,387	2,664	1,438	1,656	276	268	202	228	19	15	452	497
ENVIRONMENTAL SCIENTISTS (TOTAL)	7,842	8,462	4,898	5,285	1,293	1,397	757	738	54	39	840	1,003
EARTH SCIENTISTS	5,986	6,557	3,376	3,717	1,154	1,263	680	668	52	34	724	875
ATMOSPHERIC SCIENTISTS	682	694	539	550	60	55	31	27	1	4	51	58
OCEANOGRAPHERS	1,174	1,211	983	1,018	79	79	46	43	1	1	65	70
MATHEMATICAL SCIENTISTS (TOTAL)	28,414	29,798	11,499	12,103	5,027	4,865	4,177	4,432	199	141	7,512	8,257
MATHEMATICIANS (EXCLUDING COMPUTER SCIENTISTS)	23,322	24,030	8,953	9,263	4,342	4,094	3,644	3,833	183	118	6,200	6,722
COMPUTER SCIENTISTS (EXCLUDING PROGRAMMERS)	5,092	5,768	2,546	2,840	685	771	533	599	16	23	1,312	1,535
LIFE SCIENTISTS (TOTAL)	115,254	115,723	96,579	97,401	5,928	5,342	4,947	4,775	370	231	7,430	7,974
AGRICULTURAL SCIENTISTS	14,627	14,154	12,640	12,198	979	636	185	182	11	11	822	1,137
BIOLOGICAL SCIENTISTS	38,192	39,734	25,385	26,457	4,237	4,099	3,828	3,999	172	128	4,570	5,051
MEDICAL SCIENTISTS	62,435	61,835	58,554	58,746	712	607	934	594	197	102	2,038	1,786
PSYCHOLOGISTS (TOTAL)	21,665	22,857	9,214	9,486	4,871	4,762	3,397	3,763	199	142	3,984	4,704
SOCIAL SCIENTISTS (TOTAL)	48,775	52,571	23,269	25,247	9,848	10,095	8,042	8,353	362	272	7,254	8,604
ECONOMISTS	12,667	13,170	6,514	6,880	2,403	2,423	2,199	2,185	105	74	1,446	1,628
SOCIOLOGISTS	14,230	15,159	5,660	6,221	3,023	3,143	2,829	2,909	99	69	2,619	2,817
POLITICAL SCIENTISTS	10,555	11,309	4,759	5,102	2,279	2,171	1,950	2,057	76	63	1,491	1,916
OTHER SOCIAL SCIENTISTS	11,323	12,933	6,336	7,064	2,143	2,358	1,064	1,202	82	66	1,698	2,243

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-24. FULL-TIME SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY FIELD OF EMPLOYMENT AND TYPE OF INSTITUTION: JANUARY 1975-76

FIELD OF EMPLOYMENT	TOTAL		INSTITUTIONS GRANTING: DOCTORATE IN S&E		MASTER'S IN S&E		BACHELOR'S IN S&E		OTHER DEGREES		2-YEAR INSTITUTIONS	
	1975	1976	1975	1976	1975	1976	1975	1976	1975	1976	1975	1976
TOTAL	224,784	230,539	149,128	154,208	27,511	26,376	22,706	23,031	828	500	24,611	26,424
ENGINEERS (TOTAL)	22,579	22,799	16,589	16,864	1,802	1,576	1,575	1,275	81	35	2,823	3,049
AERONAUTICAL & ASTRONAUTICAL ENGINEERS	944	963	792	774	35	32	63	64	01	01	54	93
CHEMICAL ENGINEERS	1,603	1,622	1,390	1,421	101	84	38	38	01	21	74	77
CIVIL ENGINEERS	3,830	4,008	2,724	2,870	365	317	183	204	01	14	558	603
ELECTRICAL ENGINEERS	5,394	5,393	3,575	3,600	483	438	412	354	51	71	919	994
MECHANICAL ENGINEERS	4,355	4,351	2,913	2,985	417	359	355	270	21	91	668	728
OTHER ENGINEERS	6,453	6,462	5,195	5,214	401	346	306	345	11	31	550	554
PHYSICAL SCIENTISTS (TOTAL)	26,690	27,182	14,780	15,498	4,037	3,876	4,173	4,102	111	39	3,589	3,667
CHEMISTS	13,826	14,172	7,030	7,449	2,273	2,185	2,464	2,457	65	21	1,994	2,060
PHYSICISTS	10,941	10,867	6,490	6,580	1,560	1,500	1,535	1,458	43	16	1,313	1,313
OTHER PHYSICAL SCIENTISTS	1,923	2,143	1,260	1,469	204	191	174	187	31	21	282	294
ENVIRONMENTAL SCIENTISTS (TOTAL)	6,789	7,260	4,378	4,767	1,113	1,178	636	609	35	20	627	689
EARTH SCIENTISTS	5,174	5,592	3,023	3,378	1,002	1,076	571	551	35	17	543	620
ATMOSPHERIC SCIENTISTS	559	577	459	475	48	48	23	22	01	31	29	19
OCEANOGRAPHERS	1,056	1,091	896	911	63	54	42	53	01	01	55	50
MATHEMATICAL SCIENTISTS (TOTAL)	22,392	23,081	9,784	10,393	4,142	3,967	3,699	3,618	135	81	4,786	5,022
MATHEMATICIANS (EXCLUDING COMPUTER SCIENTISTS)	18,689	18,952	7,781	8,098	3,622	3,389	3,128	3,187	130	70	4,028	4,208
COMPUTER SCIENTISTS (EXCLUDING PROGRAMMERS)	3,703	4,129	2,003	2,295	520	578	417	431	51	111	758	814
LIFE SCIENTISTS (TOTAL)	92,004	92,589	76,969	77,948	4,996	4,471	4,015	4,100	170	86	5,854	5,984
AGRICULTURAL SCIENTISTS	13,613	12,963	11,897	11,433	900	570	179	174	11	11	636	785
BIOLOGICAL SCIENTISTS	33,490	34,744	22,771	23,783	3,606	3,491	3,374	3,502	112	72	3,627	3,896
MEDICAL SCIENTISTS	44,901	44,882	42,301	42,732	490	410	462	424	57	131	1,591	1,303
PSYCHOLOGISTS (TOTAL)	15,995	16,758	7,155	7,479	3,661	3,634	2,599	2,793	140	78	2,440	2,774
SOCIAL SCIENTISTS (TOTAL)	38,335	40,870	19,473	21,262	7,760	7,674	6,381	6,534	229	161	4,492	5,239
ECONOMISTS	10,190	10,410	5,641	5,969	1,798	1,737	1,742	1,688	76	55	933	961
SOCIOLOGISTS	10,765	11,389	4,621	5,153	2,394	2,326	2,174	2,197	68	47	1,508	1,666
POLITICAL SCIENTISTS	8,692	9,027	4,041	4,272	1,881	1,790	1,661	1,671	55	38	1,054	1,256
OTHER SOCIAL SCIENTISTS	8,688	10,044	5,170	5,868	1,687	1,821	804	978	30	21	997	1,356

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-25. SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY FUNCTION, TYPE OF INSTITUTION, AND LEVEL OF EDUCATIONAL ATTAINMENT: JANUARY 1975-76

FUNCTION AND TYPE OF INSTITUTION	TOTAL		LEVEL OF ATTAINMENT: PH.D. OR SC.D.		ED.D., J.D., ETC.		M.D., D.O.S., ETC.		MASTER'S		BACHELOR'S	
	1975	1976	1975	1976	1975	1976	1975	1976	1975	1976	1975	1976
ALL FUNCTIONS, TOTAL												
TOTAL	280,635	289,204	136,810	139,936	NA	4,371	44,558	45,113	74,790	75,490	24,477	24,294
DOCTORATE IN S&E	181,523	186,604	95,906	99,132	NA	1,587	43,045	43,680	26,805	26,774	15,767	15,431
MASTER'S IN S&E	34,075	33,150	20,743	19,992	NA	1,087	253	220	11,050	10,096	2,029	1,755
BACHELOR'S IN S&E	27,576	28,168	14,916	15,219	NA	836	663	562	10,589	10,162	1,408	1,389
OTHER DEGREE GRANTING	1,345	928	670	406	NA	17	97	104	514	347	64	54
2-YEAR	36,116	40,354	4,575	5,187	NA	844	500	547	25,832	28,111	5,209	5,665
TEACHING												
TOTAL	215,776	223,216	106,219	108,330	NA	3,817	33,059	33,610	63,691	64,098	12,807	13,361
DOCTORATE IN S&E	119,983	123,867	66,707	68,868	NA	1,184	31,601	32,241	16,958	16,643	4,717	4,931
MASTER'S IN S&E	32,451	31,930	19,923	19,300	NA	1,028	229	212	10,602	9,797	1,697	1,593
BACHELOR'S IN S&E	26,659	27,168	14,464	14,768	NA	796	641	521	10,303	9,844	1,251	1,239
OTHER DEGREE GRANTING	1,323	834	661	366	NA	16	97	98	509	309	56	45
2-YEAR	35,360	39,417	4,464	5,028	NA	793	491	538	25,319	27,505	5,086	5,553
RESEARCH AND DEVELOPMENT												
TOTAL	49,975	50,994	26,150	27,072	NA	300	9,210	8,946	7,044	7,046	7,571	7,630
DOCTORATE IN S&E	48,729	49,968	25,464	26,507	NA	267	9,201	8,929	6,733	6,799	7,331	7,466
MASTER'S IN S&E	768	572	456	337	NA	24	7	6	165	109	140	96
BACHELOR'S IN S&E	384	359	208	209	NA	5	2	6	102	89	72	50
OTHER DEGREE GRANTING	2	4	2	2	NA	0	0	0	0	2	0	0
2-YEAR	92	91	20	17	NA	4	0	5	44	47	28	18
OTHER ACTIVITIES												
TOTAL	14,884	14,994	4,441	4,534	NA	254	2,289	2,557	4,055	4,346	4,099	3,303
DOCTORATE IN S&E	12,811	12,769	3,735	3,757	NA	136	2,243	2,510	3,114	3,332	3,719	3,034
MASTER'S IN S&E	856	648	364	355	NA	35	17	2	283	190	192	66
BACHELOR'S IN S&E	533	641	244	242	NA	35	20	35	184	229	85	100
OTHER DEGREE GRANTING	20	90	7	38	NA	1	0	6	5	36	8	9
2-YEAR	664	846	91	142	NA	47	9	4	469	559	95	94

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-26. FULL-TIME SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY FUNCTION, TYPE OF INSTITUTION, AND LEVEL OF EDUCATIONAL ATTAINMENT: JANUARY 1975-76

FUNCTION AND TYPE OF INSTITUTION	TOTAL		LEVEL OF ATTAINMENT									
			PH. D. OR SC. D.		ED.D., J.D., ETC.		M.D., D.D.S. ETC.		MASTER'S		BACHELOR'S	
	1975	1976	1975	1976	1975	1976	1975	1976	1975	1976	1975	1976
ALL FUNCTIONS, TOTAL												
TOTAL	224,784	230,539	122,936	126,160	NA	3,393	29,563	30,369	54,908	53,947	17,377	16,670
DOCTORATE IN S&E	149,128	154,208	87,147	90,570	NA	1,219	28,795	29,489	20,457	20,641	12,729	12,289
MASTER'S IN S&E	27,511	26,376	18,614	17,914	NA	880	164	111	7,850	6,803	883	668
BACHELOR'S IN S&E	22,706	23,031	13,493	13,757	NA	661	260	373	8,043	7,399	910	841
OTHER DEGREE GRANTING	828	500	429	249	NA	11	19	18	349	204	31	18
2-YEAR	24,611	26,424	3,253	3,670	NA	622	325	378	18,209	18,900	2,824	2,854
TEACHING												
TOTAL	167,715	172,384	95,194	97,309	NA	2,913	20,037	20,838	45,339	44,095	7,145	7,229
DOCTORATE IN S&E	95,051	98,992	60,673	62,954	NA	882	19,303	20,001	12,037	11,957	3,038	3,198
MASTER'S IN S&E	26,021	25,279	17,857	17,263	NA	821	146	107	7,436	6,530	582	558
BACHELOR'S IN S&E	21,944	22,156	13,099	13,353	NA	629	253	347	7,795	7,112	797	715
OTHER DEGREE GRANTING	806	409	420	209	NA	10	19	12	344	168	23	10
2-YEAR	23,893	25,548	3,145	3,530	NA	571	316	371	17,727	18,328	2,705	2,748
RESEARCH AND DEVELOPMENT												
TOTAL	43,436	44,549	23,611	24,686	NA	268	7,666	7,385	5,840	5,873	6,319	6,337
DOCTORATE IN S&E	42,322	43,653	22,974	24,161	NA	235	7,658	7,373	5,555	5,647	6,135	6,237
MASTER'S IN S&E	698	497	429	321	NA	24	5	4	149	101	114	47
BACHELOR'S IN S&E	327	311	188	187	NA	5	2	3	94	79	43	37
OTHER DEGREE GRANTING	2	4	2	2	NA	0	0	0	0	2	0	0
2-YEAR	87	84	18	15	NA	4	0	5	42	44	27	16
OTHER ACTIVITIES												
TOTAL	13,633	13,606	4,131	4,165	NA	212	1,860	2,146	3,729	3,979	3,913	3,104
DOCTORATE IN S&E	11,755	11,563	3,500	3,455	NA	102	1,834	2,115	2,865	3,037	3,556	2,854
MASTER'S IN S&E	792	600	328	330	NA	35	12	0	265	172	187	63
BACHELOR'S IN S&E	435	564	206	217	NA	27	5	23	154	208	70	89
OTHER DEGREE GRANTING	20	87	7	38	NA	1	0	6	5	34	8	8
2-YEAR	631	792	90	125	NA	47	9	2	440	528	92	90

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-27. FULL-TIME SCIENTISTS AND ENGINEERS EMPLOYED AT UNIVERSITIES AND COLLEGES, BY FIELD OF EMPLOYMENT AND SEX: JANUARY 1976

FIELD OF EMPLOYMENT	TOTAL	MEN			WOMEN		
		NUMBER	PERCENT DISTRIBUTION	PERCENT OF TOTAL	NUMBER	PERCENT DISTRIBUTION	PERCENT OF TOTAL
TOTAL	230,539	194,610	100.0	84.4	35,929	100.0	15.6
ENGINEERS (TOTAL)	22,799	22,352	11.5	98.0	447	1.2	2.0
AERONAUTICAL & ASTRONAUTICAL ENGINEERS	963	935	.5	97.1	28	.1	2.9
CHEMICAL ENGINEERS	1,622	1,585	.8	97.7	37	.1	2.3
CIVIL ENGINEERS	4,008	3,925	2.0	97.9	83	.2	2.1
ELECTRICAL ENGINEERS	5,393	5,319	2.7	98.6	74	.2	1.4
MECHANICAL ENGINEERS	4,351	4,306	2.2	99.0	45	.1	1.0
OTHER ENGINEERS	6,462	6,282	3.2	97.2	180	.5	2.8
PHYSICAL SCIENTISTS (TOTAL)	27,182	25,061	12.9	92.2	2,121	5.9	7.8
CHEMISTS	14,172	12,651	6.5	89.3	1,521	4.2	10.7
PHYSICISTS	10,867	10,465	5.4	96.3	402	1.1	3.7
OTHER PHYSICAL SCIENTISTS	2,143	1,945	1.0	90.8	198	.6	9.2
ENVIRONMENTAL SCIENTISTS (TOTAL)	7,260	6,881	3.5	94.8	379	1.1	5.2
EARTH SCIENTISTS	5,592	5,313	2.7	95.0	279	.8	5.0
ATMOSPHERIC SCIENTISTS	577	544	.3	94.3	33	.1	5.7
OCEANOGRAPHERS	1,091	1,024	.5	93.9	67	.2	6.1
MATHEMATICAL SCIENTISTS (TOTAL)	23,081	19,988	10.3	86.6	3,093	8.6	13.4
MATHEMATICIANS (EXCLUDING COMPUTER SCIENTISTS)	18,957	16,343	8.4	86.2	2,614	7.3	13.8
COMPUTER SCIENTISTS (EXCLUDING PROGRAMMERS)	4,124	3,645	1.9	88.4	479	1.3	11.6
LIFE SCIENTISTS (TOTAL)	92,589	73,910	38.0	79.8	18,679	52.0	20.2
AGRICULTURAL SCIENTISTS	12,963	11,546	5.9	89.1	1,417	3.9	10.9
BIOLOGICAL SCIENTISTS	34,744	27,757	14.3	79.9	6,987	19.4	20.1
MEDICAL SCIENTISTS	44,882	34,607	17.8	77.1	10,275	28.6	22.9
PSYCHOLOGISTS (TOTAL)	16,758	12,781	6.6	76.3	3,977	11.1	23.7
SOCIAL SCIENTISTS (TOTAL)	40,870	33,637	17.3	82.3	7,233	20.1	17.7
ECONOMISTS	10,410	9,458	4.9	90.9	952	2.6	9.1
SOCIOLOGISTS	11,389	8,472	4.4	74.4	2,917	8.1	25.6
POLITICAL SCIENTISTS	9,027	7,999	4.1	88.6	1,028	2.9	11.4
OTHER SOCIAL SCIENTISTS	10,044	7,708	4.0	76.7	2,336	6.5	23.3

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-28. FULL-TIME SCIENTISTS AND ENGINEERS EMPLOYED AT UNIVERSITIES AND COLLEGES, BY TYPE OF INSTITUTION, CONTROL, AND SEX: JANUARY 1976

TYPE OF INSTITUTION AND CONTROL	TOTAL	MEN			WOMEN		
		NUMBER	PERCENT DISTRIBUTION	PERCENT OF TOTAL	NUMBER	PERCENT DISTRIBUTION	PERCENT OF TOTAL
ALL INSTITUTIONS							
TOTAL	230,539	194,610	100.0	84.4	35,929	100.0	15.6
PUBLIC	162,128	137,333	70.6	84.7	24,795	69.0	15.3
PRIVATE	68,411	57,277	29.4	83.7	11,134	31.0	16.3
INSTITUTIONS GRANTING:							
DOCTORATE IN S&E							
TOTAL	154,208	131,268	67.5	85.1	22,940	63.8	14.9
PUBLIC	107,473	91,692	47.1	85.3	15,781	43.9	14.7
PRIVATE	46,735	39,576	20.3	84.7	7,159	19.9	15.3
MASTER'S IN S&E							
TOTAL	26,376	22,674	11.7	86.0	3,702	10.3	14.0
PUBLIC	21,242	18,399	9.5	86.6	2,843	7.9	13.4
PRIVATE	5,134	4,275	2.2	83.3	859	2.4	16.7
BACHELOR'S IN S&E							
TOTAL	23,031	19,233	9.9	83.5	3,798	10.6	16.5
PUBLIC	8,400	7,209	3.7	85.8	1,191	3.3	14.2
PRIVATE	14,631	12,024	6.2	82.2	2,607	7.3	17.8
OTHER DEGREES							
TOTAL	500	406	.2	81.2	94	.3	18.8
PUBLIC	152	124	.1	81.6	28	.1	18.4
PRIVATE	348	282	.1	81.0	66	.2	19.0
2-YEAR INSTITUTIONS							
TOTAL	26,424	21,029	10.8	79.6	5,395	15.0	20.4
PUBLIC	24,861	19,909	10.2	80.1	4,952	13.8	19.9
PRIVATE	1,563	1,120	.6	71.7	443	1.2	28.3

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-29. FULL-TIME SCIENTISTS AND ENGINEERS EMPLOYED AT 50 LEADING UNIVERSITIES AND COLLEGES, IN DESCENDING ORDER, JANUARY 1975-76

INSTITUTIONS RANKED ON 1976 NUMBER	1976 NUMBER	1976 PERCENT OF TOTAL	1975 NUMBER	1975 PERCENT OF TOTAL
TOTAL, ALL INSTITUTIONS	230,539	100.00	224,330	100.00
1 HARVARD UNIVERSITY	3,090	1.34	2,903	1.29
2 UNIVERSITY OF MICHIGAN	3,041	1.32	3,222	1.44
3 UNIVERSITY OF MINNESOTA	2,801	1.21	2,723	1.21
4 UNIV OF WISCONSIN-MADISON	2,658	1.15	2,662	1.19
5 OHIO STATE UNIVERSITY	2,381	1.03	2,315	1.03
6 UNIVERSITY OF WASHINGTON	2,146	0.93	2,055	0.92
7 UNIV ILLINOIS URBANA	2,041	0.89	1,999	0.89
8 CORNELL UNIVERSITY	2,020	0.88	1,690	0.75
9 UNIVERSITY OF FLORIDA	1,972	0.86	1,945	0.87
10 JOHNS HOPKINS UNIVERSITY	1,929	0.84	1,889	0.84
TOTAL 1ST 10 INSTS.	24,079	10.44	23,403	10.43
11 PENNSYLVANIA STATE UNIV	1,867	0.81	1,867	0.83
12 MASS INST OF TECHNOLOGY	1,807	0.78	1,696	0.76
13 TEXAS A & M UNIVERSITY	1,757	0.76	1,788E	0.80
14 YALE UNIVERSITY	1,754	0.76	1,639	0.73
15 STANFORD UNIVERSITY	1,717	0.74	1,631	0.73
16 WASHINGTON UNIV ST LOUIS	1,674	0.73	1,585	0.71
17 UNIV OF TEXAS AT AUSTIN	1,603	0.70	1,686	0.75
18 N C STATE UNIV AT RALEIGH	1,600	0.69	1,535	0.68
19 UNIVERSITY OF PITTSBURGH	1,574	0.68	1,570	0.70
20 PURDUE UNIV ALL CAMPUSES	1,561	0.68	1,543	0.69
TOTAL 1ST 20 INSTS.	40,993	17.78	39,943	17.81
21 MICHIGAN STATE UNIVERSITY	1,555	0.67	1,539	0.69
22 U OF CAL LOS ANGELES	1,518	0.66	1,450	0.65
23 RUTGERS THE STATE UNIV	1,433	0.62	1,377	0.61
24 U OF CAL BERKELEY	1,368	0.59	1,357	0.60
25 UNIVERSITY OF CHICAGO	1,355	0.59	1,233	0.55
26 CASE WESTERN RESERVE UNIV	1,295	0.56	1,306	0.58
27 COLUMBIA UNIV MAIN DIV	1,289	0.56	1,298	0.58
28 UNIVERSITY OF ARIZONA	1,284	0.56	1,188	0.53
29 NEW YORK UNIVERSITY	1,284	0.56	1,346	0.60
30 UNIV OF STHRN CALIFORNIA	1,222	0.53	1,209	0.54
TOTAL 1ST 30 INSTS.	54,596	23.68	53,246	23.74
31 UNIVERSITY OF KANSAS	1,214	0.53	1,176	0.52
32 UNIV OF MD COLLEGE PARK	1,214	0.53	1,357	0.60
33 UNIVERSITY OF IOWA	1,213	0.53	1,164	0.52
34 UNIVERSITY OF COLORADO	1,208	0.52	1,094	0.49
35 DUKE UNIVERSITY	1,183	0.51	1,178	0.53
36 UNIV OF MISSOURI COLUMBIA	1,180	0.51	1,187	0.53
37 U OF CAL DAVIS	1,110	0.48	1,088	0.48
38 IOWA ST U OF SCI & TECH	1,104	0.48	1,095	0.49
39 UNIV OF NC AT CHAPEL HILL	1,094	0.47	1,515	0.68
40 TEMPLE UNIVERSITY	1,088	0.47	1,060	0.47
TOTAL 1ST 40 INSTS.	66,204	28.72	65,160	29.05
41 UNIVERSITY OF GEORGIA	995	0.43	995	0.44
42 WEST VIRGINIA UNIVERSITY	986	0.43	978E	0.44
43 OREGON STATE UNIVERSITY	979	0.42	942	0.42
44 U OF CAL SAN FRANCISCO	914	0.40	798	0.36
45 UNIVERSITY OF HAWAII	908	0.39	939	0.42
46 VIRGINIA POLYTECHNIC INST	902	0.39	841	0.37
47 UNIV OF KENTUCKY ALL CAM	902	0.39	880	0.39
48 GEORGIA INSTITUTE OF TECH	897	0.39	840	0.37
49 U OF CAL SAN DIEGO	880	0.38	881	0.39
50 UNIVERSITY OF CONNECTICUT	868	0.38	840	0.37
TOTAL 1ST 50 INSTS.	75,435	32.72	74,094	33.03

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-30.

FULL-TIME SCIENTISTS AND ENGINEERS AT FIFTY LEADING PUBLIC UNIVERSITIES IN EMPLOYMENT OF SCIENTISTS AND ENGINEERS, BY EMPLOYMENT CATEGORY AND SEX: JANUARY 1976

INSTITUTIONAL RANKING	TOTAL, ALL CATEGORIES		ENGINEERING		PHYSICAL SCIENCES		ENVIRONMENTAL SCIENCES		MATHEMATICAL SCIENCES		LIFE SCIENCES		PSYCHOLOGY		SOCIAL SCIENCES	
	GRAND TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN
TOTAL, ALL PUBLIC INSTITUTIONS	162128	24795	17015	323	18087	1336	5759	286	17196	2344	63080	12531	12037	2849	28954	5126
1 UNIVERSITY OF MICHIGAN	3041	732	338	21	258	35	96	5	102	7	1760	535	150	50	337	79
2 UNIVERSITY OF MINNESOTA	2801	456	183	0	160	10	64	4	140	12	1625	307	118	18	511	105
3 UNIV OF WISCONSIN-MADISON	2658	624	250	13	199	14	126	14	112	3	1377	394	223	77	371	109
4 OHIO STATE UNIVERSITY	2381	491	273	5	165	6	53	1	113	8	1484	438	47	3	246	30
5 UNIVERSITY OF WASHINGTON	2146	564	187	4	118	4	183	9	69	4	1411	513	44	11	134	19
6 UNIV ILLINOIS URBANA	2041	423	344	72	280	45	55	13	265	56	607	133	142	27	348	77
7 UNIVERSITY OF FLORIDA	1972	198	217	3	160	7	72	3	75	6	1136	111	63	18	249	50
8 PENNSYLVANIA STATE UNIV	1867	155	449	5	197	11	89	2	175	19	681	77	77	22	199	19
9 TEXAS A & M UNIVERSITY	1757	57	290	3	89	1	61	2	72	5	874	11	34	4	337	31
10 UNIV OF TEXAS AT AUSTIN	1603	307	257	21	359	25	109	15	134	18	199	63	148	50	397	115
TOTAL 1ST 10 INSTS.	22267	4007	2788	147	1985	158	908	68	1257	138	11154	2582	1046	280	3129	634
11 N C STATE UNIV AT RALEIGH	1600	350	196	1	61	3	16	0	110	6	1008	307	20	4	189	29
12 UNIVERSITY OF PITTSBURGH	1574	436	123	2	133	8	17	0	112	15	871	323	112	48	206	40
13 PURDUE UNIV ALL CAMPUSES	1561	138	334	3	208	11	24	1	154	15	561	77	85	18	195	13
14 MICHIGAN STATE UNIVERSITY	1555	191	118	0	173	5	35	0	129	11	714	119	115	22	271	34
15 U OF CAL LOS ANGELES	1518	195	154	3	163	7	51	3	69	5	781	145	61	10	235	22
16 RUTGERS THE STATE UNIV	1433	288	91	1	153	13	49	1	160	30	415	88	133	33	432	122
17 U OF CAL BERKELEY	1368	165	294	8	197	13	18	0	84	6	467	88	45	10	263	40
18 UNIVERSITY OF ARIZONA	1284	114	138	0	221	7	110	5	60	4	519	67	74	8	162	23
19 UNIVERSITY OF KANSAS	1214	261	86	2	87	5	51	6	71	5	567	151	107	25	245	67
20 UNIV OF MD COLLEGE PARK	1214	203	154	5	272	20	12	3	131	13	366	68	77	56	202	38
TOTAL 1ST 20 INSTS.	36588	6348	4476	172	3653	250	1201	87	2337	248	17423	4015	1879	514	5529	1062
21 UNIVERSITY OF IOWA	1213	144	65	1	74	0	13	0	62	5	816	118	30	5	153	15
22 UNIVERSITY OF COLORADO	1208	127	133	1	203	2	42	0	81	9	536	88	71	11	142	16
23 UNIV OF MISSOURI COLUMBIA	1180	109	121	0	71	4	19	0	49	0	741	88	35	5	144	12
24 U OF CAL DAVIS	1110	101	81	1	69	1	34	0	39	3	710	65	22	1	155	30
25 IOWA ST U OF SCI & TECH	1104	101	310	3	78	4	47	2	97	4	377	37	29	5	166	46
26 UNIV OF NC AT CHAPEL HILL	1094	134	0	0	127	6	50	3	79	9	673	93	49	11	116	12
27 TEMPLE UNIVERSITY	1088	230	27	1	70	8	0	0	74	8	588	132	117	34	212	47
28 UNIVERSITY OF GEORGIA	995	84	24	0	95	6	33	3	64	7	532	41	93	15	154	12
29 WEST VIRGINIA UNIVERSITY	986	138	90	2	35	1	40	0	47	11	667	111	20	4	87	9
30 OREGON STATE UNIVERSITY	979	108	130	1	93	1	102	5	72	7	451	63	21	11	110	20
TOTAL 1ST 30 INSTS.	47545	7624	5457	182	4568	283	1671	100	3001	311	23514	4851	2366	616	6968	1281
31 U OF CAL SAN FRANCISCO	914	233	0	0	0	0	0	0	2	0	911	232	1	1	0	0
32 UNIVERSITY OF HAWAII	908	131	78	2	71	5	68	2	43	2	376	74	42	6	230	40
33 VIRGINIA POLYTECHNIC INST	902	40	237	2	70	3	28	0	100	10	343	12	20	2	104	11
34 UNIV OF KENTUCKY ALL CAM	902	59	87	0	42	2	12	1	65	2	547	51	36	1	113	2
35 GEORGIA INSTITUTE OF TECH	897	38	506	11	159	4	10	0	84	6	22	4	12	1	104	12
36 U OF CAL SAN DIEGO	880	85	48	0	163	6	78	7	35	3	461	51	22	3	73	15
37 UNIVERSITY OF CONNECTICUT	868	107	82	1	73	7	22	1	44	4	461	72	59	5	127	17
38 COLORADO STATE UNIVERSITY	867	44	146	1	50	0	36	1	73	3	454	30	22	1	86	8
39 UNIV OF NEBRASKA - LNCLN	841	114	129	0	80	6	23	0	49	5	476	94	19	2	65	7
40 UNIVERSITY OF CINCINNATI	837	121	104	1	49	2	13	1	34	1	557	110	26	1	54	5
TOTAL 1ST 40 INSTS.	56361	8596	6874	200	5325	318	1961	113	3530	347	28122	5581	2625	639	7924	1398
41 U OF ILL MEDICAL CENTER	832	275	0	0	21	2	0	0	0	0	800	270	11	3	0	0
42 SUNY BUFFALO	813	74	89	1	107	4	16	0	80	8	314	27	64	7	143	27
43 UNIV ALABAMA BIRMINGHAM	805	143	22	0	29	1	3	0	41	9	661	123	23	6	26	4
44 KANSAS ST UNIVERSITY	803	122	105	1	55	1	17	0	45	4	483	108	16	2	82	6
45 CLEMSON UNIVERSITY	768	38	132	1	70	6	6	0	70	8	400	12	16	3	74	8
46 WASHINGTON STATE UNIV	738	27	93	4	38	1	8	1	55	1	400	6	35	8	109	6
47 UNIVERSITY OF ARKANSAS	735	173	72	0	52	2	19	1	27	1	351	26	21	5	193	138
48 UNIV OF MASS AT AMHERST	728	84	119	0	107	4	31	2	81	11	223	46	48	8	119	13
49 VIRGINIA COMMONWLTH UNIV	718	89	0	0	17	0	0	0	31	2	514	57	25	2	131	28
50 LSU CTR AGRI SCI/RUR DEV	677	197	7	0	0	0	0	0	1	0	652	196	0	0	17	1
TOTAL 1ST 50 INSTS.	63978	9818	7513	207	5821	339	2061	117	3961	391	32920	6452	2884	683	8818	1629
TOTAL ALL OTHER INSTS.	98150	14977	9502	116	12266	997	3698	169	13235	1953	30160	6079	9153	2166	20136	3497

NOTE: TABLE DOES NOT INCLUDE ANY LEADING INSTITUTION THAT (1) REQUIRED NATIONAL SCIENCE FOUNDATION ESTIMATES, OR (2) REQUESTED THAT ITS DATA BE HELD CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-31.

FULL-TIME SCIENTISTS AND ENGINEERS AT FIFTY LEADING PRIVATE UNIVERSITIES IN EMPLOYMENT OF SCIENTISTS AND ENGINEERS, BY EMPLOYMENT CATEGORY AND SEX: JANUARY 1976

INSTITUTIONAL RANKING	TOTAL, ALL CATEGORIES		ENGINEERING		PHYSICAL SCIENCES		ENVIRONMENTAL SCIENCES		MATHEMATICAL SCIENCES		LIFE SCIENCES		PSYCHOLOGY		SOCIAL SCIENCES	
	GRAND TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN
TOTAL, ALL PRIVATE INSTITUTIONS	68411	11134	5784	124	9095	785	1501	93	5885	749	29509	6148	4721	1128	11916	2107
1 HARVARD UNIVERSITY	3090	429	50	2	235	15	34	3	58	7	2512	377	43	8	158	17
2 CORNELL UNIVERSITY	2020	325	255	5	125	4	44	2	40	1	1119	185	26	5	411	123
3 JOHNS HOPKINS UNIVERSITY	1929	288	54	1	92	6	31	1	59	9	1521	228	30	7	142	36
4 MASS INST OF TECHNOLOGY	1807	234	678	42	387	34	86	7	132	9	320	116	31	13	173	13
5 YALE UNIVERSITY	1754	519	60	1	129	8	38	5	53	4	1281	457	41	22	152	22
6 STANFORD UNIVERSITY	1717	305	235	6	145	4	37	0	65	6	1103	259	28	10	104	20
7 WASHINGTON UNIV ST LOUIS	1674	285	63	0	64	4	1	0	29	0	1426	269	26	3	65	9
8 UNIVERSITY OF CHICAGO	1355	247	29	0	184	9	39	3	70	5	847	201	46	15	140	14
9 CASE WESTERN RESERVE UNIV	1295	180	111	2	93	3	13	0	36	2	913	159	20	3	109	11
10 COLUMBIA UNIV MAIN DIV	1289	250	101	2	143	11	86	5	41	2	770	207	32	11	116	12
TOTAL 1ST 10 INSTS.	17930	3062	1636	61	1597	98	409	26	583	45	11812	2458	323	97	1570	277
11 NEW YORK UNIVERSITY	1284	216	5	0	95	3	2	0	92	4	788	167	98	25	204	17
12 UNIV OF STHRN CALIFORNIA	1222	195	122	2	71	5	16	0	71	5	697	132	42	4	203	47
13 DUKE UNIVERSITY	1183	250	44	0	66	1	17	2	33	2	897	234	26	2	100	9
14 NORTHWESTERN UNIVERSITY	866	88	131	1	103	3	13	0	81	0	379	66	19	5	140	13
15 UNIVERSITY OF ROCHESTER	804	81	40	0	157	3	11	0	72	6	383	61	63	9	78	2
16 UNIVERSITY OF MIAMI	771	116	51	0	56	6	94	4	28	3	399	58	47	13	96	32
17 GEORGE WASHINGTON UNIV	694	168	72	0	32	3	6	0	71	8	344	99	46	21	123	37
18 BAYLOR COLLEGE OF MED	661	202	12	0	10	1	0	0	5	0	608	194	10	3	16	4
19 BOSTON UNIVERSITY	653	121	16	0	79	9	5	0	23	2	364	68	71	21	95	21
20 CALIFORNIA INST OF TECH P	647	57	133	1	250	21	73	10	53	3	100	17	1	0	37	5
TOTAL 1ST 20 INSTS.	26715	4556	2262	65	2516	153	646	42	1112	78	16771	3554	746	200	2662	464
21 PRINCETON UNIVERSITY	625	77	145	11	153	11	36	4	77	11	55	15	38	5	121	20
22 VANDERBILT UNIVERSITY	621	83	51	1	60	3	4	0	39	0	373	69	32	3	62	7
23 YESHIVA UNIVERSITY	497	128	0	0	38	0	0	0	16	1	376	95	32	24	35	8
24 GEORGETOWN UNIVERSITY	476	104	0	0	28	1	0	0	14	0	359	90	10	1	65	12
25 CARNEGIE-MELLON UNIV	455	32	145	3	143	5	0	0	62	4	38	12	24	3	43	5
26 TULANE UNIVERSITY	445	74	44	0	31	3	5	1	32	3	249	59	16	3	68	5
27 ST LOUIS UNIV	441	74	1	0	47	2	11	0	15	2	321	66	17	2	29	2
28 NEW YORK MEDICAL COLLEGE	435	25	0	0	0	0	0	0	0	0	435	25	0	0	0	0
29 LOMA LINDA UNIVERSITY	404	110	7	0	60	17	0	0	21	4	280	82	15	3	21	4
30 NORTHEASTERN UNIVERSITY	384	48	100	1	76	7	10	0	44	4	64	13	27	5	63	18
TOTAL 1ST 30 INSTS.	31498	5311	2755	81	3152	202	712	47	1432	107	19321	4080	957	249	3169	545
31 BRIGHAM YOUNG UNIVERSITY	381	15	49	0	58	0	11	0	56	4	77	6	48	3	82	2
32 THE MED COLL OF WISCONSIN	360	42	0	0	0	0	0	0	0	0	360	42	0	0	0	0
33 BROWN UNIVERSITY	358	35	57	1	62	3	18	2	52	2	72	13	19	3	78	11
34 SYRACUSE UNIVERSITY	340	7	80	1	47	0	8	0	48	0	32	0	32	0	93	6
35 ROCKEFELLER UNIVERSITY	331	40	5	0	36	0	0	0	16	0	224	30	50	10	0	0
36 WAKE FOREST UNIVERSITY	328	31	5	0	20	1	0	0	14	1	237	18	30	8	32	3
37 UNIVERSITY OF NOTRE DAME	325	10	70	0	97	2	7	0	34	0	46	3	14	2	57	3
38 RENSSELAER POLY INST	324	15	146	0	86	7	10	0	38	3	15	2	10	2	19	1
39 RICE UNIVERSITY	296	19	88	4	91	4	16	1	22	2	36	6	9	2	34	0
40 DARTMOUTH COLLEGE	285	33	23	0	28	1	9	1	22	2	131	23	17	2	55	4
TOTAL 1ST 40 INSTS.	34826	5558	3278	87	3677	220	791	51	1734	121	20551	4223	1176	281	3619	575
41 LEHIGH UNIVERSITY	276	12	115	2	45	1	9	0	48	1	10	1	9	1	40	6
42 TUFTS UNIVERSITY	272	42	36	0	33	0	3	0	17	6	133	26	15	4	35	6
43 FAIRLEIGH DICKINSON UNIV	270	49	24	1	39	3	4	0	28	3	83	18	37	13	55	11
44 LOYOLA UNIVERSITY	270	36	0	0	19	0	0	0	15	1	146	19	33	5	57	11
45 UNIVERSITY OF DAYTON	258	15	92	1	57	2	3	1	34	2	20	3	19	3	33	3
46 THOM JEFFERSON UNIV HOSP	256	42	0	0	5	1	0	0	0	0	251	41	0	0	0	0
47 CREIGHTON UNIVERSITY	250	29	3	0	15	1	0	0	6	1	207	24	7	1	15	2
48 UNIVERSITY OF DENVER	248	32	46	1	52	4	13	1	27	1	11	2	22	6	77	17
49 ALBANY MED COL OF UNION U	235	66	3	1	1	0	0	0	2	0	221	59	4	2	4	4
50 WOODS HOLE OCNGRPHIC INST	234	17	52	0	25	1	79	3	15	3	52	6	0	0	11	4
TOTAL 1ST 50 INSTS.	37395	5898	3646	93	3968	233	902	56	1926	139	21685	4422	1322	316	3946	639
TOTAL ALL OTHER INSTS.	31016	5236	2138	31	5127	552	599	37	3959	610	7824	1726	3399	812	7970	1468

NOTE: TABLE DOES NOT INCLUDE ANY LEADING INSTITUTION THAT (1) REQUIRED NATIONAL SCIENCE FOUNDATION ESTIMATES, OR (2) REQUESTED THAT ITS DATA BE HELD CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-32.

FULL-TIME SCIENTISTS AND ENGINEERS AT FIFTY LEADING DOCTORATE-GRANTING INSTITUTIONS IN EMPLOYMENT OF SCIENTISTS AND ENGINEERS, BY EMPLOYMENT CATEGORY AND SEX: JANUARY 1976

INSTITUTIONAL RANKING	TOTAL, ALL CATEGORIES		ENGINEERING		PHYSICAL SCIENCES		ENVIRONMENTAL SCIENCES		MATHEMATICAL SCIENCES		LIFE SCIENCES		PSYCHOLOGY		SOCIAL SCIENCES	
	GRAND TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN
TOTAL, ALL DOCTORATE-GRANTING INSTITUTIONS	154208	22940	16864	372	15498	944	4764	243	10393	1050	77948	15018	7479	1617	21262	3696
1 HARVARD UNIVERSITY	3090	429	50	2	235	15	34	3	58	7	2512	377	43	8	158	17
2 UNIVERSITY OF MICHIGAN	3041	732	338	21	258	35	96	5	102	7	1760	535	150	50	337	79
3 UNIVERSITY OF MINNESOTA	2801	456	183	0	160	10	64	4	140	12	1625	307	118	18	511	105
4 UNIV OF WISCONSIN-MADISON	2658	624	250	13	199	14	126	14	112	3	1377	394	223	77	371	109
5 OHIO STATE UNIVERSITY	2381	491	273	5	165	6	53	1	113	8	1484	438	47	3	246	30
6 UNIVERSITY OF WASHINGTON	2146	564	187	4	118	4	183	9	69	4	1411	513	44	11	134	19
7 UNIV ILLINOIS URBANA	2041	423	344	72	280	45	55	13	265	56	607	133	142	27	348	77
8 CORNELL UNIVERSITY	2020	325	255	5	125	4	44	2	40	1	1119	185	26	5	411	123
9 UNIVERSITY OF FLORIDA	1972	198	217	3	160	7	72	3	75	6	1136	111	63	18	249	50
10 JOHNS HOPKINS UNIVERSITY	1929	288	54	1	92	4	31	1	59	9	1521	228	30	7	142	36
TOTAL 1ST 10 INSTS.	24079	4530	2151	126	1792	146	758	55	1033	113	14552	3221	886	224	2907	645
11 PENNSYLVANIA STATE UNIV	1867	155	449	5	197	11	89	2	175	19	681	77	77	22	199	19
12 MASS INST OF TECHNOLOGY	1807	234	678	42	387	34	86	7	132	9	320	116	31	13	173	13
13 TEXAS A & M UNIVERSITY	1757	57	290	3	89	1	61	2	72	5	874	11	34	4	337	31
14 YALE UNIVERSITY	1754	519	60	1	129	8	38	5	53	4	1281	457	41	22	152	22
15 STANFORD UNIVERSITY	1717	305	235	6	145	4	37	0	65	6	1103	259	28	10	104	20
16 WASHINGTON UNIV ST LOUIS	1674	285	63	0	64	4	1	0	29	0	1426	269	26	3	65	9
17 UNIV OF TEXAS AT AUSTIN	1603	307	257	21	359	25	109	15	134	18	199	63	148	50	397	115
18 N C STATE UNIV AT RALEIGH	1600	350	196	1	61	3	16	0	110	6	1008	307	20	4	189	29
19 UNIVERSITY OF PITTSBURGH	1574	436	123	2	133	8	17	0	112	15	871	323	112	48	206	40
20 PURDUE UNIV ALL CAMPUSES	1561	138	334	3	208	11	24	1	154	15	561	77	85	18	195	13
TOTAL 1ST 20 INSTS.	40993	7316	4836	210	3564	255	1236	87	2069	210	22876	5180	1488	418	4924	956
21 MICHIGAN STATE UNIVERSITY	1555	191	118	0	173	5	35	0	129	11	714	119	115	22	271	34
22 U OF CAL LOS ANGELES	1518	195	154	3	163	7	51	3	69	5	781	145	65	10	235	22
23 RUTGERS THE STATE UNIV	1433	288	91	1	153	13	49	1	160	30	415	88	133	33	432	122
24 U OF CAL BERKELEY	1368	165	294	8	197	13	18	0	84	6	467	88	45	10	263	40
25 UNIVERSITY OF CHICAGO	1355	247	29	0	184	9	39	3	70	5	847	201	46	15	140	14
26 CASE WESTERN RESERVE UNIV	1295	180	111	2	93	3	13	0	36	2	913	159	20	3	109	11
27 COLUMBIA UNIV MAIN DIV	1289	250	101	2	143	11	86	5	41	2	770	207	32	11	116	12
28 UNIVERSITY OF ARIZONA	1284	114	138	0	221	7	110	5	60	4	519	67	74	8	162	23
29 NEW YORK UNIVERSITY	1284	216	5	0	95	3	2	0	92	4	788	167	98	25	204	17
30 UNIV OF STHRN CALIFORNIA	1222	195	122	2	71	5	16	0	71	5	697	132	42	4	203	47
TOTAL 1ST 30 INSTS.	54596	9357	5999	228	5057	331	1655	104	2881	284	29787	6553	2158	559	7059	1298
31 UNIVERSITY OF KANSAS	1214	261	86	2	87	5	51	6	71	5	567	151	107	25	245	67
32 UNIV OF MD COLLEGE PARK	1214	203	154	5	272	20	12	3	131	13	366	68	77	56	202	38
33 UNIVERSITY OF IOWA	1213	144	65	1	74	0	13	0	62	5	816	118	30	5	153	15
34 UNIVERSITY OF COLORADO	1208	127	133	1	203	2	42	0	81	9	536	88	71	11	142	16
35 DUKE UNIVERSITY	1183	250	44	0	66	1	17	2	33	2	897	234	26	2	100	9
36 UNIV OF MISSOURI COLUMBIA	1180	109	121	0	71	4	19	0	49	0	741	88	35	5	144	12
37 U OF CAL DAVIS	1110	101	81	1	69	1	34	0	39	3	710	65	22	1	155	30
38 IOWA ST U OF SCI & TECH	1104	101	310	3	78	4	47	2	97	4	377	37	29	5	166	46
39 UNIV OF NC AT CHAPEL HILL	1094	134	0	0	127	6	50	3	79	9	673	93	49	11	116	12
40 TEMPLE UNIVERSITY	1088	230	27	1	70	8	0	0	74	8	588	132	117	34	212	47
TOTAL 1ST 40 INSTS.	66204	11017	7020	242	6174	382	1940	120	3597	342	36058	7627	2721	714	8694	1590
41 UNIVERSITY OF GEORGIA	995	84	24	0	95	6	33	3	64	7	532	41	93	15	154	12
42 WEST VIRGINIA UNIVERSITY	986	138	90	2	35	1	40	0	47	11	667	111	20	4	87	9
43 OREGON STATE UNIVERSITY	979	108	130	1	93	1	102	5	72	7	451	63	21	11	110	20
44 U OF CAL SAN FRANCISCO	914	233	0	0	0	0	0	0	2	0	911	232	1	1	0	0
45 UNIVERSITY OF HAWAII	908	131	78	2	71	5	68	2	43	2	376	74	42	6	230	40
46 VIRGINIA POLYTECHNIC INST	902	40	237	2	70	3	28	0	100	10	343	12	20	2	104	11
47 UNIV OF KENTUCKY ALL CAM	902	59	87	0	42	2	12	1	65	2	547	51	36	1	113	2
48 GEORGIA INSTITUTE OF TECH	897	38	506	11	159	4	10	0	84	6	22	4	12	1	104	12
49 U OF CAL SAN DIEGO	880	85	48	0	163	6	78	7	35	3	461	51	22	3	73	15
50 UNIVERSITY OF CONNECTICUT	868	107	82	1	73	7	22	1	44	4	461	72	59	5	127	17
TOTAL 1ST 50 INSTS.	75435	12040	8302	261	6975	417	2333	139	4153	394	40829	8338	3047	763	9796	1728
TOTAL ALL OTHER INSTS.	78773	10900	8562	111	8523	527	2431	104	6240	656	37119	6680	4432	854	11466	1968

NOTE: TABLE DOES NOT INCLUDE ANY LEADING INSTITUTION THAT (1) REQUIRED NATIONAL SCIENCE FOUNDATION ESTIMATES, OR (2) REQUESTED THAT ITS DATA BE HELD CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-33.

FULL-TIME SCIENTISTS AND ENGINEERS AT FIFTY LEADING MASTER'S INSTITUTIONS IN EMPLOYMENT OF SCIENTISTS AND ENGINEERS, BY EMPLOYMENT CATEGORY AND SEX: JANUARY 1976

INSTITUTIONAL RANKING	TOTAL, ALL CATEGORIES		ENGINEERING		PHYSICAL SCIENCES		ENVIRON-MENTAL SCIENCES		MATHE-MATICAL SCIENCES		LIFE SCIENCES		PSYCHOLOGY		SOCIAL SCIENCES	
	GRAND TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN
TOTAL, ALL MASTER'S INSTITUTIONS	26376	3702	1576	11	3876	291	1178	62	3967	486	4471	741	3634	794	7674	1317
1 CAL POLY ST U SN LUIS OB	522	26	193	2	65	5	0	0	69	4	148	12	7	1	40	2
2 SAN JOSE ST UNIV	434	61	71	1	41	11	28	4	38	2	102	30	48	5	106	8
3 CUNY BROOKLYN COLLEGE	401	76	0	0	67	5	17	3	69	9	48	9	65	22	135	28
4 CUNY CITY COLLEGE	382	38	71	1	76	3	20	0	75	11	35	4	42	9	63	10
5 CALIF STATE UNIV LONG BCH	309	42	45	1	48	4	8	1	37	6	56	7	37	7	78	16
6 CALIF ST UNIV NORTHRIDGE	305	52	30	1	30	1	33	0	26	1	49	9	59	21	78	19
7 CAL ST POLY U POMONA	276	25	81	0	31	2	4	0	34	4	66	6	17	3	43	10
8 CALIF STATE UNIV LA	272	23	26	0	38	1	19	1	26	1	26	3	42	7	95	10
9 CALIF STATE UNIV CHICO	267	44	18	0	24	2	20	1	21	2	57	6	38	8	89	25
10 SAN FRANCISCO ST UNIV	264	51	10	0	29	3	18	1	23	5	34	4	46	9	104	29
TOTAL 1ST 10 INSTS.	3432	438	545	6	449	37	167	11	418	45	621	90	401	92	831	157
11 CALIF ST UNIV FULLERTON	256	34	22	1	37	3	7	2	43	1	25	2	24	6	98	19
12 S ILLINOIS U EDWARDSVILLE	252	26	17	0	30	1	3	1	28	4	64	6	23	4	87	10
13 EAST CAROLINA UNIVERSITY	246	43	4	0	27	2	7	1	28	10	69	15	26	4	85	11
14 WRIGHT STATE UNIV	240	26	11	0	40	2	13	1	32	3	76	9	17	3	51	8
15 CALIF STATE UNIV FRESNO	229	19	19	0	29	3	21	0	18	1	65	7	22	4	55	4
16 CUNY HUNTER COLLEGE	218	51	0	0	32	2	17	2	28	8	48	17	37	11	56	11
17 WESTERN ILLINOIS UNIV	211	15	0	0	25	1	27	0	39	2	44	4	21	3	55	5
18 SUNY COLLEGE BUFFALO	196	30	11	0	34	2	18	0	30	4	30	8	18	8	55	8
19 SUNY COLLEGE BROCKPORT	194	44	0	0	20	4	12	0	27	6	27	8	26	6	82	20
20 MANKATO STATE COLLEGE	190	13	0	0	26	0	17	1	28	2	19	1	45	0	55	9
TOTAL 1ST 20 INSTS.	5664	739	629	7	749	57	309	19	719	86	1088	167	660	141	1510	262
21 WSTRN KENTUCKY UNIVERSITY	187	31	10	0	36	2	10	0	29	7	29	2	29	9	44	11
22 FLORIDA TECH UNIV	187	17	40	0	16	0	1	0	25	0	23	4	17	2	65	11
23 HUMBOLDT STATE UNIVERSITY	184	16	6	0	22	1	7	0	19	2	66	1	23	5	41	7
24 WESTERN WASHINGTON ST COL	184	16	0	0	32	1	9	2	23	2	23	1	38	5	59	5
25 SUNY COLLEGE OSWEGO	180	17	0	0	22	0	9	0	25	1	20	1	37	5	67	10
26 MONTCLAIR STATE COLLEGE	178	50	0	0	23	5	5	0	33	5	15	8	41	14	61	18
27 CUNY LEHMAN COLLEGE	177	47	0	0	25	6	11	2	31	6	19	4	29	11	62	18
28 SOUTHWEST TEXAS ST UNIV	176	23	1	0	18	0	5	0	36	3	55	8	15	5	46	7
29 CALIF ST UNIV HAYWARD	176	22	0	0	23	3	7	1	39	5	25	3	28	7	54	3
30 ESTRN KENTUCKY UNIVERSITY	175	30	0	0	27	3	13	0	19	4	36	9	29	7	51	7
TOTAL 1ST 30 INSTS.	7468	1008	686	7	993	78	386	24	998	121	1399	208	946	211	2060	359
31 INDIANA U OF PENNA	175	17	0	0	39	4	5	0	40	5	31	1	19	1	41	6
32 CENTRAL MICHIGAN UNIV	173	19	0	0	28	3	5	0	32	2	25	1	11	2	72	11
33 ROCHESTER INST TECHNOLOGY	172	14	45	0	46	2	0	0	37	1	13	4	0	0	31	7
34 SOUTHWEST MISSOURI ST U	172	27	0	0	24	2	17	0	21	4	34	3	35	10	41	8
35 ST CLOUD STATE UNIVERSITY	168	17	3	0	25	0	15	0	30	2	26	2	24	5	45	8
36 EASTERN ILLINOIS UNIV	167	17	0	0	29	1	10	1	29	2	39	3	28	4	32	6
37 SOUTHERN UNIV	167	47	29	0	28	8	0	0	37	12	38	10	9	5	26	12
38 YOUNGSTOWN ST UNIVERSITY	166	23	36	0	28	1	5	1	27	3	18	3	16	6	36	9
39 UNIV OF N C AT CHARLOTTE	161	18	27	0	19	0	0	0	29	4	15	2	20	3	51	9
40 CUNY B BARUCH SCH OF BUS	158	26	0	0	5	1	1	1	60	7	9	5	31	7	52	5
TOTAL 1ST 40 INSTS.	9147	1233	826	7	1264	100	444	27	1340	163	1647	242	1139	254	2487	440
41 CUNY JHN JAY COL CRIM JUS	157	37	0	0	9	3	0	0	18	3	5	0	37	11	88	20
42 UNIV OF WIS OSHKOSH	155	14	2	0	27	2	10	0	29	1	28	3	14	1	45	7
43 MIDDLE TENNESSEE ST UNIV	155	18	7	0	22	2	1	0	22	2	29	2	27	3	47	9
44 EAST TENN ST UNIV	153	45	3	0	13	0	18	0	20	4	57	36	13	2	29	3
45 TOWSON STATE COLLEGE	149	37	0	0	26	4	9	0	27	10	25	6	31	9	31	8
46 UNIV OF WIS STEVNS POINT	146	10	0	0	26	2	0	0	23	2	48	0	14	3	35	3
47 SUNY COLLEGE ONEONTA	142	18	0	0	21	1	12	0	25	2	18	1	30	5	36	9
48 CALIF STATE COLL SONOMA	140	22	0	0	17	0	9	0	12	2	22	2	37	7	43	11
49 STHEASTRN MASS UNIVERSITY	139	12	35	1	26	1	0	0	14	0	21	2	10	2	33	6
50 EDINBORO STATE COLLEGE	138	14	0	0	21	1	8	0	27	4	22	1	27	3	33	5
TOTAL 1ST 50 INSTS.	10621	1460	873	8	1472	116	511	27	1557	193	1922	295	1379	300	2907	521
TOTAL ALL OTHER INSTS.	15755	2242	703	3	2404	175	667	35	2410	293	2549	446	2255	494	4767	796

NOTE: TABLE DOES NOT INCLUDE ANY LEADING INSTITUTION THAT (1) REQUIRED NATIONAL SCIENCE FOUNDATION ESTIMATES, OR (2) REQUESTED THAT ITS DATA BE HELD CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-34.

FULL-TIME SCIENTISTS AND ENGINEERS AT FIFTY LEADING BACHELOR'S INSTITUTIONS IN EMPLOYMENT OF SCIENTISTS AND ENGINEERS, BY EMPLOYMENT CATEGORY AND SEX: JANUARY 1976

INSTITUTIONAL RANKING	TOTAL, ALL CATEGORIES		ENGINEERING		PHYSICAL SCIENCES		ENVIRONMENTAL SCIENCES		MATHEMATICAL SCIENCES		LIFE SCIENCES		PSYCHOLOGY		SOCIAL SCIENCES	
	GRAND TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN
TOTAL, ALL BACHELOR'S INSTITUTIONS	23031	3798	1275	13	4102	471	609	32	3618	568	4100	931	2793	639	6534	1144
1 US NAVAL ACADEMY	446	10	138	0	108	3	12	1	73	0	0	0	20	0	95	6
2 US MILITARY ACADEMY	359	1	143	0	49	0	28	1	71	0	1	0	16	0	51	0
3 UNIV OF SOUTH ALABAMA	162	20	12	0	11	1	8	1	19	5	82	8	9	2	21	3
4 WEBER STATE COLLEGE	154	13	29	0	16	1	8	0	19	1	35	6	14	3	33	2
5 UNIV OF MASS BOSTON	148	46	0	0	27	4	0	0	22	6	20	7	19	8	60	21
6 FERRIS STATE COLLEGE	130	9	17	1	32	3	3	0	27	1	17	2	7	0	27	2
7 U OF ME AT PORTLAND	115	24	1	0	9	0	7	1	17	1	14	4	9	1	58	17
8 CUNY YORK COLLEGE	112	37	0	0	15	2	4	0	23	7	8	2	31	16	31	10
9 CAL ST COL DOMINGUEZ HLLS	112	31	0	0	17	2	3	1	12	0	14	7	19	10	47	11
10 KEAN COLL OF NEW JERSEY	111	34	0	0	11	2	8	0	18	9	16	4	32	14	26	5
TOTAL 1ST 10 INSTS.	1849	225	340	1	295	18	81	5	301	30	207	48	176	54	449	77
11 SCHOOL OF THE OZARKS	106	8	0	0	16	0	8	1	21	0	21	2	14	2	26	3
12 GENERAL MOTORS INSTITUTE	104	1	56	1	15	0	0	0	17	0	1	0	7	0	8	0
13 BOISE STATE UNIVERSITY	102	8	4	0	15	0	7	0	19	1	13	1	13	1	31	5
14 MERCER UNIVERSITY	101	25	0	0	12	1	0	0	9	3	35	13	10	2	35	6
15 U TENNESSEE AT MARTIN	99	8	9	0	13	2	6	0	15	3	28	2	9	0	19	1
16 LAFAYETTE COLLEGE	98	6	27	0	17	1	4	0	14	1	6	0	8	2	22	2
17 VALAPARAISO UNIVERSITY	95	6	19	0	12	0	2	0	12	2	9	0	8	1	33	3
18 NEW YORK INST TECH	94	6	28	0	11	0	0	0	22	3	7	0	12	1	14	2
19 SALEM STATE COL	93	12	0	0	11	2	15	1	16	0	15	3	13	1	23	5
20 U OF WIS PARKSIDE	92	10	10	0	17	2	6	0	14	0	11	2	8	2	26	4
TOTAL 1ST 20 INSTS.	2833	315	493	2	434	26	129	7	460	43	353	63	278	86	686	108
21 FLORIDA INTERNATIONAL U	92	15	16	1	10	2	2	0	17	2	12	1	14	3	21	6
22 CAMERON UNIVERSITY	86	20	9	1	9	1	0	0	11	0	24	10	1	0	32	8
23 CENTRAL STATE UNIV	86	15	0	0	19	0	0	0	19	6	15	5	7	1	26	3
24 UNIV OF SOUTHERN COLORADO	85	7	11	0	11	1	3	0	16	0	9	0	16	2	19	4
25 UNIV OF ARK LITTLE ROCK	83	12	4	0	15	3	5	0	13	3	12	1	8	1	26	4
26 RICHARD STOCKTON STATE C	82	18	0	0	12	1	14	2	15	3	12	7	10	2	19	3
27 US COAST GUARD ACADEMY	80	1	22	0	23	0	5	0	16	1	0	0	2	0	12	0
28 UNIV OF NO CAR WILM	80	10	0	0	12	1	10	1	14	2	20	2	7	2	17	2
29 WILLIAMS COLLEGE	80	6	0	0	18	1	5	0	8	0	8	1	11	3	30	1
30 RAMAPO COLLEGE OF NJ	79	25	0	0	9	1	1	1	5	2	12	5	14	5	38	11
TOTAL 1ST 30 INSTS.	3666	444	555	4	572	37	174	11	594	62	477	95	368	85	926	150
31 OHIO NORTHERN UNIV	79	6	15	0	12	1	0	0	10	1	31	3	3	1	8	1
32 LA SALLE COLLEGE	79	6	0	0	9	0	2	0	14	1	9	1	17	1	28	3
33 PACE UNIVERSITY	76	25	0	0	8	1	2	1	21	5	11	6	16	6	18	6
34 CITADEL MILITARY COL S C	75	1	11	0	15	0	1	0	15	0	11	0	5	1	17	0
35 EVERGREEN STATE COLLEGE	74	20	2	0	9	2	3	0	10	1	13	1	7	4	30	12
36 COLGATE UNIVERSITY	73	5	0	0	12	0	6	0	11	1	8	1	8	1	28	2
37 FAYETTEVILLE STATE UNIV	72	19	0	0	6	3	1	0	12	2	13	3	18	6	22	5
38 FAIRFIELD UNIVERSITY	71	8	1	0	15	0	0	0	15	1	7	0	16	5	17	2
39 ST LAWRENCE UNIVERSITY	70	6	0	0	13	0	6	1	9	1	10	1	10	1	22	2
40 W VIRGINIA INST OF TECH	69	8	34	0	10	2	0	0	12	3	5	2	0	0	8	1
TOTAL 1ST 40 INSTS.	4404	548	618	4	681	45	195	13	723	78	595	113	468	111	1124	184
41 SUNY EMPIRE STATE COLL	69	20	0	0	5	2	3	0	1	0	5	3	17	3	38	12
42 CALIF ST COLL BAKERSFIELD	69	10	2	0	8	1	5	0	10	0	12	3	10	3	22	3
43 GRAMBLING COLLEGE	68	19	0	0	12	2	0	0	16	3	15	4	2	1	23	9
44 CATHOLIC UNIV OF P R	68	27	0	0	16	7	0	0	11	7	18	7	5	2	18	4
45 CARLETON COLLEGE	67	11	0	0	12	1	3	0	11	0	8	3	12	4	21	3
46 WILKES COLLEGE	67	3	3	0	14	0	3	0	11	0	9	0	5	0	22	3
47 STANISLAUS ST COLLEGE	67	8	0	0	11	0	0	0	7	0	11	2	12	2	26	4
48 CUNY MEDGAR EVERS COLLEGE	66	25	0	0	6	2	0	0	7	2	4	2	29	15	20	4
49 DENISON UNIVERSITY	66	7	0	0	12	0	4	0	9	1	9	0	10	3	22	3
50 HOPE COLLEGE	65	4	0	0	22	1	3	1	9	0	9	1	10	1	12	0
TOTAL 1ST 50 INSTS.	5076	682	623	4	799	61	216	14	815	91	695	138	580	145	1348	229
TOTAL ALL OTHER INSTS.	17955	3116	652	9	3303	410	393	18	2803	477	3405	793	2213	494	5186	915

NOTE: TABLE DOES NOT INCLUDE ANY LEADING INSTITUTION THAT (1) REQUIRED NATIONAL SCIENCE FOUNDATION ESTIMATES, OR (2) REQUESTED THAT ITS DATA BE HELD CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-35.

FULL-TIME SCIENTISTS AND ENGINEERS AT FIFTY LEADING 2-YEAR INSTITUTIONS IN EMPLOYMENT OF SCIENTISTS AND ENGINEERS, BY EMPLOYMENT CATEGORY AND SEX: JANUARY 1976

INSTITUTIONAL RANKING	TOTAL, ALL CATEGORIES		ENGINEERING		PHYSICAL SCIENCES		ENVIRONMENTAL SCIENCES		MATHEMATICAL SCIENCES		LIFE SCIENCES		PSYCHOLOGY		SOCIAL SCIENCES	
	GRAND TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN	TOTAL	WOMEN
TOTAL, ALL 2-YEAR INSTITUTIONS	26424	5395	3049	51	3667	411	689	40	5022	972	5984	1970	2774	904	5239	1047
1 CHICAGO CITY COLLEGE	599	146	52	0	89	15	3	0	96	25	123	42	86	30	150	34
2 SACRAMENTO CITY COLLEGE	379	67	46	1	36	5	12	2	43	4	48	14	54	15	140	26
3 MIAMI-DADE CMTY COLLEGE	348	80	58	2	41	4	12	1	64	14	70	19	37	18	66	22
4 NORTHERN VA CMTY COLLEGE	213	80	31	2	21	4	1	0	44	11	72	48	16	7	28	8
5 N Y CITY CMTY COL	209	33	71	2	37	5	5	0	33	8	37	12	9	2	17	4
6 UNIV WISCONSIN CENTERS	205	27	9	1	45	5	25	3	41	2	30	6	11	3	44	7
7 NASSAU CMTY COLLEGE	197	62	14	0	24	4	4	0	42	2	79	47	17	7	17	2
8 CUNY QUEENSBORO CMTY COL	177	52	36	0	21	4	0	0	40	12	32	16	25	10	23	10
9 MONTGOMRY COLL ALL CAMP	176	59	10	0	25	6	6	0	40	15	36	21	15	6	44	11
10 HUDSON VALLEY CMTY COL	165	35	56	0	25	2	1	0	16	1	42	29	5	2	20	1
TOTAL 1ST 10 INSTS.	2668	641	383	8	364	54	69	6	459	94	569	254	275	100	549	125
11 TARRANT CO JR COLL S CAMP	159	35	42	0	10	3	3	0	24	7	18	2	34	16	28	7
12 CITY COL OF SAN FRANCISCO	148	25	28	1	34	6	3	0	22	2	20	5	14	2	27	9
13 DIABLO VALLEY COLLEGE	144	29	14	0	20	1	0	0	15	2	30	10	18	6	47	10
14 SAN ANTONIO COLLEGE	142	20	0	0	21	2	8	0	34	6	22	4	22	4	35	4
15 LOS ANGELES PIERCE COL	140	40	11	0	17	4	5	1	22	2	38	20	20	9	27	4
16 SANTA FE CMTY COLLEGE	138	61	15	1	14	6	4	0	13	4	53	35	22	9	17	6
17 SUNY AG&TECH FARMNGDALE	135	18	30	1	26	1	2	0	21	2	34	7	5	1	17	6
18 MONROE COMMUNITY COLLEGE	134	27	16	1	15	2	8	0	28	1	27	16	13	1	27	6
19 COMMUNITY COLLEGE DENVER	134	34	31	0	8	0	3	0	21	7	24	10	32	12	15	5
20 EL CAMINO COLLEGE	128	38	3	0	19	5	10	2	24	4	39	18	10	4	23	5
TOTAL 1ST 20 INSTS.	4070	968	573	12	548	84	115	9	683	131	874	381	465	164	812	187
21 BRONX COMMUNITY COLLEGE	127	14	13	2	25	2	0	0	32	4	35	3	7	2	15	1
22 SPRINGFIELD TECH CMTY COL	121	45	26	0	12	2	3	0	12	1	43	34	8	1	17	7
23 MOUNT SAN ANTONIO COLLEGE	120	22	0	0	17	2	4	0	16	2	58	13	11	4	14	1
24 STATEN IS CMTY COL	119	28	23	1	19	4	3	0	26	8	27	10	6	2	15	3
25 AMERICAN RIVER COLLEGE	118	15	5	0	19	3	4	0	28	4	21	2	20	3	21	3
26 SUNY AG&TECH ALFRED	115	5	34	0	11	0	0	0	20	0	37	5	6	0	7	0
27 WEST VALLEY COLLEGE	114	36	17	5	10	1	3	0	12	2	27	14	29	9	16	5
28 MACOMB CNTY CMY COL ALL C	112	24	11	0	12	2	1	0	20	3	20	8	15	7	33	4
29 LOS ANGELES VALLEY COL	110	22	10	0	17	3	10	1	19	4	19	5	14	3	21	6
30 BOROUGH OF MANHATTAN COL	105	35	0	0	16	2	0	0	35	13	25	10	11	6	18	4
TOTAL 1ST 30 INSTS.	5231	1214	712	20	706	105	143	10	903	172	1186	485	592	201	989	221
31 CMTY COL OF PHILA	105	27	0	0	15	2	0	0	27	4	27	9	15	6	21	6
32 WENTWORTH INSTITUTE	104	5	70	0	7	0	0	0	6	1	0	0	0	0	21	4
33 WESTCHESTER CMTY COLLEGE	104	24	17	0	21	5	1	0	16	3	27	12	12	3	10	1
34 GROSSMONT COLLEGE	102	25	9	0	9	1	8	1	16	7	14	3	23	9	23	4
35 LOS ANGELES CITY COLLEGE	102	22	3	0	15	2	8	2	27	5	14	4	18	7	17	2
36 COLLEGE OF DUPAGE	101	27	13	0	7	0	1	0	23	6	14	3	11	9	32	9
37 PASADENA CITY COLLEGE	101	26	7	0	17	3	5	0	15	2	19	6	9	4	29	11
38 TIDEWATER COMM COLLEGE	100	31	8	0	6	0	0	0	38	14	15	5	10	4	23	8
39 FLORIDA JR COL JACKSONVL	100	20	9	1	11	1	4	0	18	3	20	9	14	4	24	2
40 JR COL DIST OF MET. K CY	100	21	10	0	12	2	4	0	19	4	15	6	31	8	9	1
TOTAL 1ST 40 INSTS.	6250	1442	858	21	826	121	174	13	1108	221	1351	542	735	255	1198	269
41 RHODE ISLAND JR COLLEGE	98	20	7	0	14	2	1	0	25	4	18	7	23	6	10	1
42 CHARLES STEWART MOTT C C	94	15	26	0	8	1	3	0	19	2	13	3	5	3	20	6
43 SAN DIEGO MESA COLLEGE	94	21	5	0	12	1	1	0	12	3	24	10	12	3	28	4
44 SUNY AG&TECH CANTON	90	18	29	0	11	1	0	0	11	2	26	12	4	2	9	1
45 KINGSBORO CMTY COL	90	17	0	0	9	1	2	0	25	6	17	4	24	4	13	2
46 WM RAINEY HARPER COLLEGE	88	32	8	0	7	1	1	0	13	4	31	22	18	4	10	1
47 MADISON AREA TECH COLLEGE	87	38	11	0	10	1	0	0	11	3	37	28	4	2	14	4
48 ESTRN IA CMY COL ALL CAM	87	32	19	0	6	0	0	0	6	1	48	31	2	0	6	0
49 PRINCE GEORGES CMTY COL	85	23	1	0	10	4	1	0	26	7	10	4	11	3	26	5
50 EAST LOS ANGELES COLLEGE	82	19	6	0	15	2	4	0	17	3	10	3	11	6	19	5
TOTAL 1ST 50 INSTS.	7145	1677	970	21	928	135	187	13	1273	256	1585	666	849	288	1353	298
TOTAL ALL OTHER INSTS.	19279	3718	2079	30	2739	276	502	27	3749	716	4399	1304	1925	616	3886	749

NOTE: TABLE DOES NOT INCLUDE ANY LEADING INSTITUTION THAT (1) REQUIRED NATIONAL SCIENCE FOUNDATION ESTIMATES, OR (2) REQUESTED THAT ITS DATA BE HELD CONFIDENTIAL.

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-36. SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY DIVISION, STATE, CONTROL, AND EMPLOYMENT STATUS: JANUARY 1976

DIVISION AND STATE	PUBLIC			PRIVATE		
	TOTAL	FULL-TIME	PART-TIME	TOTAL	FULL-TIME	PART-TIME
UNITED STATES TOTAL	198,775	162,128	36,647	90,429	68,411	22,018
NEW ENGLAND	7,212	6,271	941	16,374	12,259	4,115
CONNECTICUT	2,024	1,636	388	3,232	2,517	715
MAINE	709	604	105	226	206	20
MASSACHUSETTS	2,658	2,433	225	11,609	8,432	3,177
NEW HAMPSHIRE	440	405	35	484	389	95
RHODE ISLAND	661	604	57	525	486	39
VERMONT	720	589	131	298	229	69
MIDDLE ATLANTIC	27,784	21,435	6,349	25,236	18,008	7,228
NEW JERSEY	4,907	3,872	1,035	2,287	1,519	768
NEW YORK	15,177	11,111	4,066	14,561	11,174	3,387
PENNSYLVANIA	7,700	6,452	1,248	8,388	5,315	3,073
EAST NORTH CENTRAL	37,983	30,170	7,813	13,392	10,289	3,103
ILLINOIS	9,275	7,147	2,128	5,677	4,509	1,168
INDIANA	3,841	3,242	599	1,263	1,080	183
MICHIGAN	10,725	8,589	2,136	1,399	859	540
OHIO	8,256	6,180	2,076	3,349	2,764	585
WISCONSIN	5,886	5,012	874	1,704	1,077	627
WEST NORTH CENTRAL	16,730	14,948	1,782	6,259	4,903	1,356
IOWA	3,015	2,750	265	832	698	134
KANSAS	3,114	2,769	345	292	240	52
MINNESOTA	4,431	3,714	717	777	648	129
MISSOURI	2,934	2,713	221	3,675	2,784	891
NEBRASKA	1,583	1,456	127	510	398	112
NORTH DAKOTA	748	710	38	26	24	2
SOUTH DAKOTA	905	836	69	147	111	36
SOUTH ATLANTIC	29,987	25,310	4,677	12,525	9,969	2,556
DELAWARE	596	565	31	24	23	1
DISTRICT OF COLUMBIA	592	241	351	3,198	2,073	1,125
FLORIDA	5,889	5,119	770	1,547	1,228	319
GEORGIA	4,010	3,498	512	1,368	1,167	201
MARYLAND	4,473	3,443	1,030	2,663	2,170	493
NORTH CAROLINA	5,104	4,620	484	2,355	2,174	181
SOUTH CAROLINA	2,599	2,182	417	448	369	79
VIRGINIA	5,036	4,162	874	657	559	98
WEST VIRGINIA	1,688	1,480	208	265	206	59
EAST SOUTH CENTRAL	10,773	9,234	1,539	2,638	2,232	406
ALABAMA	3,111	2,628	483	482	422	60
KENTUCKY	2,267	2,019	248	371	288	83
MISSISSIPPI	1,773	1,607	166	175	153	22
TENNESSEE	3,622	2,980	642	1,610	1,369	241
WEST SOUTH CENTRAL	20,294	17,691	2,603	3,802	3,173	629
ARKANSAS	1,889	1,747	142	157	123	34
LOUISIANA	3,758	3,230	528	737	630	107
OKLAHOMA	2,193	1,923	270	309	241	68
TEXAS	12,454	10,791	1,663	2,599	2,179	420
MOUNTAIN	12,196	10,560	1,636	1,183	1,002	181
ARIZONA	2,925	2,294	631	57	57	0
COLORADO	3,951	3,507	444	427	360	67
IDAHO	724	654	70	114	99	15
MONTANA	868	800	68	64	44	20
NEVADA	602	463	139	0	0	0
NEW MEXICO	1,299	1,145	154	75	42	33
UTAH	1,340	1,246	94	446	400	46
WYOMING	487	451	36	0	0	0
PACIFIC	33,575	24,486	9,089	8,475	6,076	2,399
ALASKA	319	319	0	28	24	4
CALIFORNIA	23,804	16,530	7,274	7,563	5,366	2,197
HAWAII	1,152	923	229	87	29	58
OREGON	3,716	2,776	940	332	272	60
WASHINGTON	4,584	3,938	646	465	385	80
OUTLYING AREAS	2,241	2,023	218	545	500	45

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-37. SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY DIVISION, STATE, EMPLOYMENT STATUS, AND FUNCTION: JANUARY 1976

DIVISION AND STATE	FULL-TIME				PART-TIME			
	TOTAL	TEACHING	R & D	OTHER ACTIV-ITIES	TOTAL	TEACHING	R & D	OTHER ACTIV-ITIES
UNITED STATES TOTAL	230,539	172,384	44,549	13,606	58,665	50,832	6,445	1,388
NEW ENGLAND	18,530	13,411	4,597	522	5,056	4,342	662	52
CONNECTICUT	4,153	2,809	1,250	94	1,103	884	216	3
MAINE	810	618	173	19	125	119	6	0
MASSACHUSETTS	10,865	7,885	2,839	141	3,402	2,980	384	38
NEW HAMPSHIRE	794	677	92	25	130	97	30	3
RHODE ISLAND	1,090	842	173	75	96	76	15	5
VERMONT	818	580	70	168	200	186	11	3
MIDDLE ATLANTIC	39,443	31,569	6,357	1,517	13,577	12,369	894	314
NEW JERSEY	5,391	4,468	809	114	1,803	1,697	76	30
NEW YORK	22,285	16,889	4,331	1,065	7,453	6,584	607	262
PENNSYLVANIA	11,767	10,212	1,217	338	4,321	4,088	211	22
EAST NORTH CENTRAL	40,459	30,533	7,272	2,654	10,916	9,051	1,382	483
ILLINOIS	11,656	8,385	2,257	1,014	3,296	2,630	399	267
INDIANA	4,322	3,443	461	418	782	615	52	115
MICHIGAN	9,448	7,468	1,619	361	2,676	2,391	262	23
OHIO	8,544	6,839	1,421	684	2,661	2,253	336	72
WISCONSIN	6,089	4,398	1,514	177	1,501	1,162	333	6
WEST NORTH CENTRAL	19,851	14,555	3,779	1,517	3,138	2,766	300	72
IOWA	3,448	2,491	736	221	399	321	62	16
KANSAS	3,009	2,109	588	312	397	329	49	19
MINNESOTA	4,362	4,039	283	40	846	755	86	5
MISSOURI	5,497	3,481	1,628	388	1,112	1,038	62	12
NEBRASKA	1,854	1,315	212	327	239	210	11	18
NORTH DAKOTA	734	541	163	30	40	38	2	0
SOUTH DAKOTA	947	579	169	199	105	75	28	2
SOUTH ATLANTIC	35,279	25,718	7,056	2,505	7,233	6,740	400	93
DELAWARE	588	425	128	35	32	27	5	0
DISTRICT OF COLUMBIA	2,314	1,845	401	68	1,476	1,376	90	10
FLORIDA	6,347	4,603	1,419	325	1,089	1,000	79	10
GEORGIA	4,665	3,341	1,091	233	713	623	87	3
MARYLAND	5,613	3,742	1,763	108	1,523	1,451	47	25
NORTH CAROLINA	6,794	4,697	1,150	947	665	617	39	9
SOUTH CAROLINA	2,551	1,948	293	310	496	469	21	6
VIRGINIA	4,721	3,772	695	254	972	936	23	13
WEST VIRGINIA	1,686	1,345	116	225	267	241	9	17
EAST SOUTH CENTRAL	11,466	8,745	1,963	758	1,945	1,808	119	18
ALABAMA	3,050	2,340	598	112	543	520	21	2
KENTUCKY	2,307	1,691	342	274	331	314	13	4
MISSISSIPPI	1,760	1,373	332	55	188	181	1	6
TENNESSEE	4,349	3,341	691	317	883	793	84	6
WEST SOUTH CENTRAL	20,864	14,935	3,660	2,269	3,232	2,817	325	90
ARKANSAS	1,870	1,296	170	404	176	154	8	14
LOUISIANA	3,860	2,946	383	531	635	595	26	14
OKLAHOMA	2,164	1,619	301	244	338	317	8	13
TEXAS	12,970	9,074	2,806	1,090	2,083	1,751	283	49
MOUNTAIN	11,562	8,213	2,605	744	1,817	1,437	282	98
ARIZONA	2,351	1,436	710	205	631	445	150	36
COLORADO	3,867	3,123	633	111	511	430	48	33
IDAHO	753	592	125	36	85	80	5	0
MONTANA	844	650	187	7	88	79	9	0
NEVADA	463	294	135	34	139	115	12	12
NEW MEXICO	1,187	851	272	64	187	168	13	6
UTAH	1,646	992	446	208	140	84	45	11
WYOMING	451	275	97	79	36	36	0	0
PACIFIC	30,562	22,937	6,778	847	11,488	9,343	1,984	161
ALASKA	343	153	140	50	4	4	0	0
CALIFORNIA	21,896	17,167	4,354	375	9,471	7,737	1,607	127
HAWAII	952	599	240	113	287	243	24	20
OREGON	3,048	2,069	833	146	1,000	828	165	7
WASHINGTON	4,323	2,949	1,211	163	726	531	188	7
OUTLYING AREAS	2,523	1,768	482	273	263	159	97	7

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-38. SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY DIVISION, STATE, AND MAJOR FIELD OF EMPLOYMENT: JANUARY 1976

DIVISION AND STATE	TOTAL	ENGINEERS	PHYSICAL SCIENTISTS	ENVIRON-MENTAL SCIENTISTS	MATHE-MATICAL SCIENTISTS	LIFE SCIENTISTS	PSYCHO-LOGISTS	SOCIAL SCIENTISTS
UNITED STATES TOTAL	289,204	28,296	31,497	8,462	29,798	115,723	22,857	52,571
NEW ENGLAND	23,586	2,620	2,714	689	1,995	10,023	1,647	3,898
CONNECTICUT	5,256	398	506	115	463	2,345	456	973
MAINE	935	88	103	31	113	224	88	288
MASSACHUSETTS	14,267	1,803	1,745	423	1,089	6,397	819	1,991
NEW HAMPSHIRE	924	115	115	36	75	324	76	183
RHODE ISLAND	1,186	134	154	61	164	273	115	285
VERMONT	1,018	82	91	23	91	460	93	178
MIDDLE ATLANTIC	53,020	4,908	6,142	1,229	5,949	19,681	5,277	9,834
NEW JERSEY	7,194	792	905	185	957	1,887	843	1,625
NEW YORK	29,738	2,539	3,445	734	3,438	10,936	2,978	5,668
PENNSYLVANIA	16,088	1,577	1,792	310	1,554	6,858	1,456	2,541
EAST NORTH CENTRAL	51,375	5,027	5,547	1,380	5,168	20,925	4,040	9,288
ILLINOIS	14,952	1,223	1,630	338	1,766	5,926	1,309	2,760
INDIANA	5,104	596	706	147	592	1,645	474	944
MICHIGAN	12,124	1,227	1,281	272	1,122	5,083	919	2,220
OHIO	11,605	1,311	1,159	295	1,082	5,056	734	1,968
WISCONSIN	7,590	670	771	328	606	3,215	604	1,396
WEST NORTH CENTRAL	22,989	1,823	2,117	562	1,921	11,075	1,597	3,894
IOWA	3,847	422	374	94	359	1,651	220	727
KANSAS	3,406	279	328	102	332	1,360	317	688
MINNESOTA	5,208	277	452	135	445	2,363	409	1,127
MISSOURI	6,609	464	575	123	469	3,718	433	827
NEBRASKA	2,093	147	206	45	157	1,166	115	259
NORTH DAKOTA	774	122	89	41	84	276	51	111
SOUTH DAKOTA	1,052	112	93	24	75	541	52	155
SOUTH ATLANTIC	42,512	3,964	4,304	1,198	4,965	17,056	3,073	7,952
DELAWARE	620	110	112	39	86	115	29	129
DISTRICT OF COLUMBIA	3,790	331	246	36	439	1,737	210	791
FLORIDA	7,436	809	799	367	854	2,429	608	1,570
GEORGIA	5,378	638	569	108	568	2,170	402	923
MARYLAND	7,136	493	808	126	778	3,058	547	1,326
NORTH CAROLINA	7,459	508	701	183	796	3,483	493	1,295
SOUTH CAROLINA	3,047	339	314	47	425	1,244	194	484
VIRGINIA	5,693	574	585	229	850	1,879	480	1,096
WEST VIRGINIA	1,953	162	170	63	169	941	110	338
EAST SOUTH CENTRAL	13,411	1,242	1,337	258	1,524	5,811	1,022	2,217
ALABAMA	3,593	384	375	56	457	1,534	236	551
KENTUCKY	2,638	146	266	64	269	1,184	218	491
MISSISSIPPI	1,948	167	215	32	249	788	134	363
TENNESSEE	5,232	545	481	106	549	2,305	434	812
WEST SOUTH CENTRAL	24,096	2,282	2,420	679	2,511	10,518	1,585	4,101
ARKANSAS	2,046	103	168	36	163	1,070	90	416
LOUISIANA	4,495	354	388	109	449	2,440	197	558
OKLAHOMA	2,502	312	269	54	313	825	200	529
TEXAS	15,053	1,513	1,595	480	1,586	6,183	1,098	2,598
MOUNTAIN	13,379	1,860	1,722	701	1,417	4,308	1,053	2,318
ARIZONA	2,982	436	407	186	273	908	253	519
COLORADO	4,378	611	578	189	543	1,328	381	748
IDAHO	838	90	96	34	75	328	59	156
MONTANA	932	104	110	62	85	292	49	230
NEVADA	602	56	74	58	46	239	31	98
NEW MEXICO	1,374	197	162	64	163	472	96	220
UTAH	1,786	297	229	67	171	604	155	263
WYOMING	487	69	66	41	61	137	29	84
PACIFIC	42,050	4,380	4,884	1,722	4,084	15,303	3,363	8,314
ALASKA	347	44	60	60	20	86	23	54
CALIFORNIA	31,367	3,545	3,831	1,140	3,122	10,634	2,576	6,519
HAWAII	1,239	89	90	76	71	508	81	324
OREGON	4,048	294	472	180	432	1,670	341	659
WASHINGTON	5,049	408	431	266	439	2,405	342	758
OUTLYING AREAS	2,786	190	310	44	264	1,023	200	755

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-39. FULL-TIME SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY DIVISION, STATE, AND MAJOR FIELD OF EMPLOYMENT: JANUARY 1976

DIVISION AND STATE	TOTAL	ENGINEERS	PHYSICAL SCIENTISTS	ENVIRON-MENTAL SCIENTISTS	MATHE-MATICAL SCIENTISTS	LIFE SCIENTISTS	PSYCHO-LOGISTS	SOCIAL SCIENTISTS
UNITED STATES TOTAL	230,539	22,799	27,182	7,760	23,081	92,589	16,758	40,870
NEW ENGLAND	18,530	2,151	2,412	582	1,632	7,445	1,227	3,081
CONNECTICUT	4,153	325	419	97	338	1,997	307	670
MAINE	810	80	95	30	94	205	60	246
MASSACHUSETTS	10,865	1,445	1,577	358	901	4,350	643	1,591
NEW HAMPSHIRE	794	99	100	22	68	289	55	161
RHODE ISLAND	1,090	126	141	55	149	255	104	260
VERMONT	818	76	80	20	82	349	58	153
MIDDLE ATLANTIC	39,443	3,850	5,010	1,032	4,394	14,261	3,511	7,385
NEW JERSEY	5,391	572	730	162	687	1,444	584	1,212
NEW YORK	22,285	2,030	2,763	601	2,421	8,350	1,972	4,148
PENNSYLVANIA	11,767	1,248	1,517	269	1,286	4,467	955	2,025
EAST NORTH CENTRAL	40,459	4,137	4,863	1,200	3,961	15,960	3,017	7,321
ILLINOIS	11,656	1,000	1,446	293	1,328	4,422	964	2,203
INDIANA	4,322	530	647	127	477	1,391	354	796
MICHIGAN	9,448	990	1,060	237	837	3,992	658	1,674
OHIO	8,944	1,051	1,030	260	800	3,772	529	1,502
WISCONSIN	6,089	566	680	283	519	2,383	512	1,146
WEST NORTH CENTRAL	19,851	1,670	1,980	514	1,721	9,356	1,320	3,290
IOWA	3,448	413	343	77	322	1,498	183	612
KANSAS	3,009	249	309	90	293	1,230	257	581
MINNESOTA	4,362	208	419	129	398	1,914	337	957
MISSOURI	5,497	431	538	114	425	2,961	353	675
NEBRASKA	1,854	142	197	41	131	1,016	101	226
NORTH DAKOTA	734	117	88	40	79	262	44	104
SOUTH DAKOTA	947	110	86	23	73	475	45	135
SOUTH ATLANTIC	35,279	3,262	3,798	1,066	3,837	14,707	2,337	6,272
DELAWARE	588	107	95	39	80	112	28	127
DISTRICT OF COLUMBIA	2,314	177	189	17	209	1,129	138	455
FLORIDA	6,347	637	709	334	703	2,210	495	1,259
GEORGIA	4,665	567	532	100	472	1,852	332	810
MARYLAND	5,613	409	711	103	570	2,569	344	907
NORTH CAROLINA	6,794	445	629	162	687	3,351	407	1,113
SOUTH CAROLINA	2,551	276	283	44	345	1,024	149	430
VIRGINIA	4,721	495	501	216	627	1,629	363	890
WEST VIRGINIA	1,686	149	149	51	144	831	81	281
EAST SOUTH CENTRAL	11,466	1,050	1,193	236	1,247	5,022	817	1,901
ALABAMA	3,050	324	317	51	352	1,359	192	455
KENTUCKY	2,307	131	247	61	228	1,007	186	447
MISSISSIPPI	1,760	164	205	28	235	687	115	326
TENNESSEE	4,349	431	424	96	432	1,969	324	673
WEST SOUTH CENTRAL	20,864	1,988	2,245	629	2,070	9,150	1,292	3,490
ARKANSAS	1,870	95	160	34	141	992	81	367
LOUISIANA	3,860	305	372	99	419	2,003	164	498
OKLAHOMA	2,164	270	250	51	247	738	170	438
TEXAS	12,970	1,318	1,463	445	1,263	5,417	877	2,187
MOUNTAIN	11,562	1,589	1,591	614	1,198	3,738	877	1,955
ARIZONA	2,351	338	363	147	226	708	191	378
COLORADO	3,867	521	537	174	444	1,219	321	651
IDAHO	753	90	90	27	66	299	47	134
MONTANA	844	97	104	53	77	267	44	202
NEVADA	463	48	65	54	39	146	25	86
NEW MEXICO	1,187	152	152	57	136	423	82	185
UTAH	1,646	278	218	65	154	553	141	237
WYOMING	451	65	62	37	56	123	26	82
PACIFIC	30,562	2,928	3,808	1,344	2,775	12,067	2,187	5,453
ALASKA	343	44	60	60	20	84	22	53
CALIFORNIA	21,896	2,204	2,911	817	2,042	8,233	1,602	4,087
HAWAII	952	80	79	68	51	384	51	239
OREGON	3,048	233	377	153	293	1,327	226	439
WASHINGTON	4,323	367	381	246	369	2,039	286	635
OUTLYING AREAS	2,523	174	282	43	246	883	173	722

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-40. SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY DIVISION, STATE, CONTROL, AND FUNCTION: JANUARY 1976

DIVISION AND STATE	PUBLIC				PRIVATE			
	TOTAL	TEACHING	R & D	OTHER ACTIV-ITIES	TOTAL	TEACHING	R & D	OTHER ACTIV-ITIES
UNITED STATES TOTAL	198,775	155,309	31,359	12,107	90,429	67,907	19,635	2,887
NEW ENGLAND	7,212	6,024	812	376	16,374	11,729	4,447	198
CONNECTICUT	2,024	1,613	344	67	3,232	2,080	1,122	30
MAINE	709	514	179	16	226	223	0	3
MASSACHUSETTS	2,658	2,546	75	37	11,609	8,319	3,148	142
NEW HAMPSHIRE	440	384	37	19	484	390	85	9
RHODE ISLAND	661	492	96	73	525	426	92	7
VERMONT	720	475	81	164	298	291	0	7
MIDDLE ATLANTIC	27,784	24,215	2,648	921	25,236	19,723	4,603	910
NEW JERSEY	4,907	4,244	568	95	2,287	1,921	317	49
NEW YORK	15,177	13,423	1,221	533	14,561	10,050	3,717	794
PENNSYLVANIA	7,700	6,548	859	293	8,388	7,752	569	67
EAST NORTH CENTRAL	37,983	28,903	6,416	2,664	13,392	10,681	2,238	473
ILLINOIS	9,275	6,998	1,334	943	5,677	4,017	1,322	338
INDIANA	3,841	2,882	442	517	1,263	1,176	71	16
MICHIGAN	10,725	8,510	1,873	342	1,399	1,349	8	42
OHIO	8,256	6,510	1,031	715	3,349	2,582	726	41
WISCONSIN	5,886	4,003	1,736	147	1,704	1,557	111	36
WEST NORTH CENTRAL	16,730	12,598	2,891	1,241	6,259	4,723	1,188	348
IOWA	3,015	1,996	794	225	832	816	4	12
KANSAS	3,114	2,147	637	330	292	291	0	1
MINNESOTA	4,431	4,056	353	22	777	738	16	23
MISSOURI	2,934	2,268	536	130	3,675	2,251	1,154	270
NEBRASKA	1,583	1,064	211	308	510	461	12	37
NORTH DAKOTA	748	553	165	30	26	26	0	0
SOUTH DAKOTA	905	514	195	196	147	140	2	5
SOUTH ATLANTIC	29,987	23,720	4,092	2,175	12,525	8,738	3,364	423
DELAWARE	596	428	133	35	24	24	0	0
DISTRICT OF COLUMBIA	592	588	0	4	3,198	2,633	491	74
FLORIDA	5,889	4,507	1,093	289	1,547	1,096	405	46
GEORGIA	4,010	2,919	1,000	91	1,368	1,045	178	145
MARYLAND	4,473	4,111	252	110	2,663	1,082	1,558	23
NORTH CAROLINA	5,104	3,738	484	882	2,355	1,576	705	74
SOUTH CAROLINA	2,599	1,981	312	306	448	436	2	10
VIRGINIA	5,036	4,103	693	240	657	605	25	27
WEST VIRGINIA	1,688	1,345	125	218	265	241	0	24
EAST SOUTH CENTRAL	10,773	8,434	1,664	675	2,638	2,119	418	101
ALABAMA	3,111	2,401	612	98	482	459	7	16
KENTUCKY	2,267	1,644	352	271	371	361	3	7
MISSISSIPPI	1,773	1,385	332	56	175	169	1	5
TENNESSEE	3,622	3,004	368	250	1,610	1,130	407	73
WEST SOUTH CENTRAL	20,294	14,854	3,193	2,247	3,802	2,898	792	112
ARKANSAS	1,889	1,297	177	415	157	153	1	3
LOUISIANA	3,758	2,865	380	513	737	676	29	32
OKLAHOMA	2,193	1,645	296	252	309	291	13	5
TEXAS	12,454	9,047	2,340	1,067	2,599	1,778	749	72
MOUNTAIN	12,196	8,725	2,649	822	1,183	925	238	20
ARIZONA	2,925	1,830	858	237	57	51	2	4
COLORADO	3,951	3,309	509	133	427	244	172	11
IDAHO	724	559	130	35	114	113	0	1
MONTANA	868	667	196	5	64	62	0	2
NEVADA	602	409	147	46	0	0	0	0
NEW MEXICO	1,299	945	284	70	75	74	1	0
UTAH	1,340	695	428	217	446	381	63	2
WYOMING	487	311	97	79	0	0	0	0
PACIFIC	33,575	26,444	6,425	706	8,475	5,836	2,337	302
ALASKA	319	130	140	49	28	27	0	1
CALIFORNIA	23,804	19,908	3,672	224	7,563	4,996	2,289	278
HAWAII	1,152	758	264	130	87	84	0	3
OREGON	3,716	2,618	952	146	332	279	46	7
WASHINGTON	4,584	3,030	1,397	157	465	450	2	13
OUTLYING AREAS	2,241	1,392	569	280	545	535	10	0

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-41. FULL-TIME SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY DIVISION, STATE, CONTROL, AND FUNCTION: JANUARY 1976

DIVISION AND STATE	PUBLIC				PRIVATE			
	TOTAL	TEACHING	R & D	OTHER ACTIV-ITIES	TOTAL	TEACHING	R & D	OTHER ACTIV-ITIES
UNITED STATES TOTAL	162,128	123,896	26,980	11,252	68,411	48,488	17,569	2,354
NEW ENGLAND	6,271	5,199	704	368	12,259	8,212	3,893	154
CONNECTICUT	1,636	1,295	274	67	2,517	1,514	976	27
MAINE	604	415	173	16	206	203	0	3
MASSACHUSETTS	2,433	2,336	62	35	8,432	5,549	2,777	106
NEW HAMPSHIRE	405	352	35	18	389	325	57	7
RHODE ISLAND	604	446	90	68	486	396	83	7
VERMONT	589	355	70	164	229	225	0	4
MIDDLE ATLANTIC	21,435	18,248	2,335	852	18,008	13,321	4,022	665
NEW JERSEY	3,872	3,273	513	86	1,519	1,195	296	28
NEW YORK	11,111	9,571	1,052	488	11,174	7,318	3,279	577
PENNSYLVANIA	6,452	5,404	770	278	5,315	4,808	447	60
EAST NORTH CENTRAL	30,170	22,612	5,329	2,229	10,289	7,921	1,943	425
ILLINOIS	7,147	5,277	1,159	711	4,509	3,108	1,098	303
INDIANA	3,242	2,438	398	406	1,080	1,005	63	12
MICHIGAN	8,589	6,653	1,612	324	859	815	7	37
OHIO	6,180	4,809	726	645	2,764	2,030	695	39
WISCONSIN	5,012	3,435	1,434	143	1,077	963	80	34
WEST NORTH CENTRAL	14,948	11,114	2,644	1,190	4,903	3,441	1,135	327
IOWA	2,750	1,806	732	212	698	685	4	9
KANSAS	2,769	1,870	588	311	240	239	0	1
MINNESOTA	3,714	3,427	268	19	648	612	15	21
MISSOURI	2,713	2,067	524	122	2,784	1,414	1,104	266
NEBRASKA	1,456	954	201	301	398	361	11	26
NORTH DAKOTA	710	517	163	30	24	24	0	0
SOUTH DAKOTA	836	473	168	195	111	106	1	4
SOUTH ATLANTIC	25,310	19,350	3,848	2,112	9,969	6,368	3,208	393
DELAWARE	565	402	128	35	23	23	0	0
DISTRICT OF COLUMBIA	241	238	0	3	2,073	1,607	401	65
FLORIDA	5,119	3,785	1,054	280	1,228	818	365	45
GEORGIA	3,498	2,496	913	89	1,167	845	178	144
MARYLAND	3,443	3,144	214	85	2,170	598	1,549	23
NORTH CAROLINA	4,620	3,284	459	877	2,174	1,413	691	70
SOUTH CAROLINA	2,182	1,588	292	302	369	360	1	8
VIRGINIA	4,162	3,255	672	235	559	517	23	19
WEST VIRGINIA	1,480	1,158	116	206	206	187	0	19
EAST SOUTH CENTRAL	9,234	6,961	1,608	665	2,232	1,784	355	93
ALABAMA	2,628	1,941	591	96	422	399	7	16
KENTUCKY	2,019	1,411	339	269	288	280	3	5
MISSISSIPPI	1,607	1,225	331	51	153	148	1	4
TENNESSEE	2,980	2,384	347	249	1,369	957	344	68
WEST SOUTH CENTRAL	17,691	12,552	2,960	2,179	3,173	2,383	700	90
ARKANSAS	1,747	1,176	169	402	123	120	1	2
LOUISIANA	3,230	2,362	362	506	630	584	21	25
OKLAHOMA	1,923	1,395	288	240	241	224	13	4
TEXAS	10,791	7,619	2,141	1,031	2,179	1,455	665	59
MOUNTAIN	10,560	7,443	2,392	725	1,002	770	213	19
ARIZONA	2,294	1,385	708	201	57	51	2	4
COLORADO	3,507	2,921	486	100	360	202	147	11
IDAHO	654	494	125	35	99	98	0	1
MONTANA	800	608	187	5	44	42	0	2
NEVADA	463	294	135	34	0	0	0	0
NEW MEXICO	1,145	810	271	64	42	41	1	0
UTAH	1,246	656	383	207	400	336	63	1
WYOMING	451	275	97	79	0	0	0	0
PACIFIC	24,486	19,139	4,688	659	6,076	3,798	2,090	188
ALASKA	319	130	140	49	24	23	0	1
CALIFORNIA	16,530	14,014	2,310	206	5,366	3,153	2,044	169
HAWAII	923	573	240	110	29	26	0	3
OREGON	2,776	1,846	789	141	272	223	44	5
WASHINGTON	3,938	2,576	1,209	153	385	373	2	10
OUTLYING AREAS	2,023	1,278	472	273	500	490	10	0

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-42. SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY DIVISION, STATE, AND TYPE OF INSTITUTION: JANUARY 1976

DIVISION AND STATE	TOTAL	INSTITUTIONS GRANTING: DOCTORATE IN S & E	MASTER'S IN S & E	BACHELOR'S IN S & E	OTHER DEGREES	2-YEAR INSTITUTIONS
UNITED STATES TOTAL	289,204	186,604	33,150	28,168	928	40,354
NEW ENGLAND	23,586	16,878	2,585	2,216	193	1,714
CONNECTICUT	5,256	3,126	1,358	316	4	450
MAINE	935	412	0	421	7	95
MASSACHUSETTS	14,267	11,155	857	1,236	93	926
NEW HAMPSHIRE	924	701	17	131	0	75
RHODE ISLAND	1,186	882	153	25	28	98
VERMONT	1,018	600	200	87	61	70
MIDDLE ATLANTIC	53,020	31,571	7,431	6,071	212	7,735
NEW JERSEY	7,194	4,388	793	877	0	1,136
NEW YORK	29,738	16,184	5,005	2,955	54	5,540
PENNSYLVANIA	16,088	10,999	1,633	2,239	158	1,059
EAST NORTH CENTRAL	51,375	34,835	4,920	4,782	231	6,607
ILLINOIS	14,952	9,441	1,614	973	41	2,883
INDIANA	5,104	3,840	329	646	13	76
MICHIGAN	12,124	8,272	592	1,331	26	1,903
OHIO	11,605	8,381	981	1,156	41	1,046
WISCONSIN	7,590	4,901	1,404	476	110	699
WEST NORTH CENTRAL	22,989	16,382	2,050	2,739	32	1,786
IOWA	3,847	2,579	295	569	0	404
KANSAS	3,406	2,480	220	343	0	363
MINNESOTA	5,208	3,406	708	652	0	442
MISSOURI	6,609	4,983	583	660	20	363
NEBRASKA	2,093	1,550	244	209	12	78
NORTH DAKOTA	774	563	0	105	0	106
SOUTH DAKOTA	1,052	821	0	201	0	30
SOUTH ATLANTIC	42,512	26,445	3,683	5,130	18	7,236
DELAWARE	620	454	0	69	0	97
DISTRICT OF COLUMBIA	3,790	3,133	199	71	0	387
FLORIDA	7,436	4,220	668	461	0	2,087
GEORGIA	5,378	3,550	333	859	0	636
MARYLAND	7,136	4,431	388	1,016	13	1,288
NORTH CAROLINA	7,459	4,499	994	942	5	1,019
SOUTH CAROLINA	3,047	1,791	236	545	0	475
VIRGINIA	5,693	3,243	718	591	0	1,141
WEST VIRGINIA	1,953	1,124	147	576	0	106
EAST SOUTH CENTRAL	13,411	8,190	2,045	1,695	21	1,460
ALABAMA	3,593	2,076	444	546	13	514
KENTUCKY	2,638	1,589	593	424	0	32
MISSISSIPPI	1,948	1,138	229	199	0	382
TENNESSEE	5,232	3,387	779	526	8	532
WEST SOUTH CENTRAL	24,096	17,501	1,991	1,897	0	2,707
ARKANSAS	2,046	1,338	214	438	0	56
LOUISIANA	4,495	3,510	513	263	0	209
OKLAHOMA	2,502	1,486	19	632	0	365
TEXAS	15,053	11,167	1,245	564	0	2,077
MOUNTAIN	13,379	9,714	308	1,753	0	1,604
ARIZONA	2,982	2,349	0	44	0	589
COLORADO	4,378	2,717	35	1,075	0	551
IDAHO	838	534	0	192	0	112
MONTANA	932	679	69	129	0	55
NEVADA	602	453	107	0	0	42
NEW MEXICO	1,374	1,152	97	99	0	26
UTAH	1,786	1,517	0	214	0	55
WYOMING	487	313	0	0	0	174
PACIFIC	42,050	23,257	7,649	1,660	221	9,263
ALASKA	347	319	0	13	0	15
CALIFORNIA	31,367	16,026	6,628	988	40	7,685
HAWAII	1,239	1,110	0	87	0	42
OREGON	4,048	2,522	347	263	181	735
WASHINGTON	5,049	3,280	674	309	0	786
OUTLYING AREAS	2,786	1,831	488	225	0	242

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-43. FULL-TIME SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY DIVISION, STATE, AND TYPE OF INSTITUTION: JANUARY 1976

DIVISION AND STATE	TOTAL	INSTITUTIONS GRANTING: DOCTORATE IN S & E	MASTER'S IN S & E	BACHELOR'S IN S & E	OTHER DEGREES	2-YEAR INSTITUTIONS
UNITED STATES TOTAL	230,539	154,208	26,376	23,031	500	26,424
NEW ENGLAND	18,550	13,261	1,932	1,811	159	1,367
CONNECTICUT	4,153	2,739	853	225	4	332
MAINE	810	387	0	385	7	31
MASSACHUSETTS	10,865	8,223	769	1,012	66	795
NEW HAMPSHIRE	794	617	14	96	0	67
RHODE ISLAND	1,090	817	126	21	28	98
VERMONT	818	478	170	72	54	44
MIDDLE ATLANTIC	39,443	24,021	6,099	4,545	77	4,701
NEW JERSEY	5,391	3,365	638	622	0	766
NEW YORK	22,285	12,923	3,899	2,085	26	3,352
PENNSYLVANIA	11,767	7,733	1,562	1,838	51	583
EAST NORTH CENTRAL	40,459	28,375	4,009	3,677	187	4,211
ILLINOIS	11,656	7,723	1,320	753	28	1,832
INDIANA	4,322	3,369	238	655	13	47
MICHIGAN	9,448	6,758	517	968	25	1,180
OHIO	8,944	6,760	673	926	14	571
WISCONSIN	6,089	3,765	1,261	375	107	581
WEST NORTH CENTRAL	19,851	14,168	1,837	2,334	25	1,487
IOWA	3,448	2,366	244	494	0	344
KANSAS	3,009	2,234	209	273	0	293
MINNESOTA	4,362	2,801	633	559	0	369
MISSOURI	5,497	4,099	532	551	18	297
NEBRASKA	1,854	1,384	219	178	7	66
NORTH DAKOTA	734	531	0	101	0	102
SOUTH DAKOTA	947	753	0	178	0	16
SOUTH ATLANTIC	35,279	22,948	3,024	4,548	3	4,756
DELAWARE	588	423	0	69	0	96
DISTRICT OF COLUMBIA	2,314	2,025	126	56	0	107
FLORIDA	6,347	3,811	542	401	0	1,593
GEORGIA	4,665	3,164	306	756	0	439
MARYLAND	5,613	3,759	270	925	0	659
NORTH CAROLINA	6,794	4,331	831	833	3	796
SOUTH CAROLINA	2,551	1,578	221	468	0	284
VIRGINIA	4,721	2,871	605	531	0	714
WEST VIRGINIA	1,686	986	123	509	0	68
EAST SOUTH CENTRAL	11,466	7,138	1,831	1,476	14	1,007
ALABAMA	3,050	1,856	418	464	8	304
KENTUCKY	2,307	1,366	568	344	0	29
MISSISSIPPI	1,760	1,033	206	188	0	333
TENNESSEE	4,349	2,883	639	480	6	341
WEST SOUTH CENTRAL	20,864	15,617	1,832	1,648	0	1,767
ARKANSAS	1,870	1,244	208	371	0	47
LOUISIANA	3,860	3,017	503	208	0	132
OKLAHOMA	2,164	1,329	19	581	0	235
TEXAS	12,970	10,027	1,102	488	0	1,353
MOUNTAIN	11,562	8,768	292	1,536	0	966
ARIZONA	2,351	1,994	0	44	0	313
COLORADO	3,867	2,582	35	958	0	292
IDAHO	753	500	0	156	0	97
MONTANA	844	638	64	108	0	34
NEVADA	463	340	106	0	0	17
NEW MEXICO	1,187	1,014	87	65	0	21
UTAH	1,646	1,389	0	205	0	52
WYOMING	451	311	0	0	0	140
PACIFIC	30,562	18,276	5,036	1,283	35	5,932
ALASKA	343	319	0	10	0	14
CALIFORNIA	21,896	12,091	4,124	756	35	4,890
HAWAII	952	908	0	29	0	15
OREGON	3,048	2,074	299	229	0	446
WASHINGTON	4,323	2,884	613	259	0	567
OUTLYING AREAS	2,523	1,636	484	173	0	230

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-44. SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY DIVISION, STATE, AND LEVEL OF EDUCATIONAL ATTAINMENT: JANUARY 1976

DIVISION AND STATE	TOTAL	LEVEL OF ATTAINMENT				
		PH.D. OR SC.D.	ED.D., J.D., ETC.	M.D., D.D.S., ETC.	MASTER'S	BACHELOR'S
UNITED STATES TOTAL	289,204	139,936	4,371	45,113	75,490	24,294
NEW ENGLAND	23,586	11,863	224	4,720	4,712	2,067
CONNECTICUT	5,256	2,424	57	717	1,253	805
MAINE	935	572	18	10	248	87
MASSACHUSETTS	14,267	7,017	117	3,692	2,478	963
NEW HAMPSHIRE	924	557	11	81	218	57
RHODE ISLAND	1,186	858	12	10	273	33
VERMONT	1,018	435	9	210	242	122
MIDDLE ATLANTIC	53,020	25,246	754	9,463	14,037	3,520
NEW JERSEY	7,194	3,617	152	834	2,244	347
NEW YORK	29,738	14,276	381	5,065	7,917	2,099
PENNSYLVANIA	16,088	7,353	221	3,564	3,876	1,074
EAST NORTH CENTRAL	51,375	25,394	670	8,113	12,921	4,277
ILLINOIS	14,952	7,115	208	2,547	3,963	1,119
INDIANA	5,104	3,317	88	424	989	286
MICHIGAN	12,124	5,184	130	1,662	3,565	1,583
OHIO	11,605	5,619	101	2,153	2,818	914
WISCONSIN	7,590	4,159	143	1,327	1,586	375
WEST NORTH CENTRAL	22,989	11,178	373	4,167	5,683	1,588
IOWA	3,847	2,027	33	460	1,037	290
KANSAS	3,406	1,822	59	326	968	231
MINNESOTA	5,208	2,486	119	800	1,411	392
MISSOURI	6,609	2,967	101	2,093	1,162	286
NEBRASKA	2,093	1,035	23	413	552	70
NORTH DAKOTA	774	402	12	46	229	85
SOUTH DAKOTA	1,052	439	26	29	324	234
SOUTH ATLANTIC	42,512	19,977	796	6,389	11,566	3,784
DELAWARE	620	430	6	7	124	53
DISTRICT OF COLUMBIA	3,790	1,596	38	1,011	914	231
FLORIDA	7,436	3,492	162	872	2,343	567
GEORGIA	5,378	2,742	137	781	1,367	351
MARYLAND	7,136	2,949	184	1,426	1,980	597
NORTH CAROLINA	7,459	3,535	124	896	1,858	1,046
SOUTH CAROLINA	3,047	1,480	15	422	721	409
VIRGINIA	5,693	2,982	100	609	1,627	375
WEST VIRGINIA	1,953	771	30	365	632	155
EAST SOUTH CENTRAL	13,411	6,817	270	2,199	3,437	688
ALABAMA	3,593	1,771	49	623	1,033	117
KENTUCKY	2,638	1,496	46	577	481	38
MISSISSIPPI	1,948	949	42	211	652	94
TENNESSEE	5,232	2,601	133	788	1,271	439
WEST SOUTH CENTRAL	24,096	11,251	528	3,375	6,185	2,757
ARKANSAS	2,046	772	55	384	608	227
LOUISIANA	4,495	2,069	57	950	1,097	322
OKLAHOMA	2,502	1,269	114	265	683	171
TEXAS	15,053	7,141	302	1,776	3,797	2,037
MOUNTAIN	13,379	7,969	191	1,077	3,122	1,020
ARIZONA	2,982	1,650	31	186	771	344
COLORADO	4,378	2,553	83	361	1,012	369
IDAHO	838	487	14	17	287	33
MONTANA	932	578	22	21	241	70
NEVADA	602	372	2	112	89	27
NEW MEXICO	1,374	846	7	184	270	67
UTAH	1,786	1,190	26	186	302	82
WYOMING	487	293	6	10	150	28
PACIFIC	42,050	19,625	547	5,241	12,494	4,143
ALASKA	347	197	1	1	123	25
CALIFORNIA	31,367	14,063	403	4,249	9,655	2,997
HAWAII	1,239	732	4	162	271	70
OREGON	4,048	1,811	76	371	1,162	628
WASHINGTON	5,049	2,822	63	458	1,283	423
OUTLYING AREAS	2,786	616	18	369	1,333	450

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-45. FULL-TIME SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY DIVISION, STATE, AND LEVEL OF EDUCATIONAL ATTAINMENT: JANUARY 1976

DIVISION AND STATE	TOTAL	LEVEL OF ATTAINMENT				
		PH.D. OR SC.D.	ED.D., J.D., ETC.	M.D., D.D.S., ETC.	MASTER'S	BACHELOR'S
UNITED STATES TOTAL	230,539	126,160	3,393	30,369	53,947	16,670
NEW ENGLAND	18,530	10,638	168	2,759	3,382	1,583
CONNECTICUT	4,153	2,128	41	591	793	600
MAINE	810	546	14	9	183	58
MASSACHUSETTS	10,865	6,235	88	1,956	1,823	763
NEW HAMPSHIRE	794	505	8	70	177	34
RHODE ISLAND	1,090	826	12	6	217	29
VERMONT	818	398	5	127	189	99
MIDDLE ATLANTIC	39,443	22,266	566	5,420	9,047	2,144
NEW JERSEY	5,391	3,167	130	555	1,361	178
NEW YORK	22,285	12,605	255	3,368	4,832	1,225
PENNSYLVANIA	11,767	6,494	181	1,497	2,854	741
EAST NORTH CENTRAL	40,459	22,766	528	5,201	8,935	3,029
ILLINOIS	11,656	6,536	156	1,504	2,641	819
INDIANA	4,322	3,121	77	250	691	183
MICHIGAN	9,448	4,653	103	1,147	2,384	1,161
OHIO	8,944	4,796	70	1,490	1,984	604
WISCONSIN	6,089	3,660	122	810	1,235	262
WEST NORTH CENTRAL	19,851	10,632	328	2,979	4,697	1,215
IOWA	3,448	1,953	29	401	836	229
KANSAS	3,009	1,712	55	259	807	176
MINNESOTA	4,362	2,351	97	537	1,126	251
MISSOURI	5,497	2,830	88	1,417	936	226
NEBRASKA	1,854	991	22	305	487	49
NORTH DAKOTA	734	387	11	40	213	83
SOUTH DAKOTA	947	408	26	20	292	201
SOUTH ATLANTIC	35,279	18,230	592	5,112	8,584	2,761
DELAWARE	588	416	6	7	109	50
DISTRICT OF COLUMBIA	2,314	1,191	8	583	415	117
FLORIDA	6,347	3,235	143	799	1,822	348
GEORGIA	4,665	2,592	124	592	1,070	287
MARYLAND	5,613	2,538	86	1,230	1,360	399
NORTH CAROLINA	6,794	3,360	113	865	1,521	935
SOUTH CAROLINA	2,551	1,406	8	261	588	288
VIRGINIA	4,721	2,769	80	461	1,178	233
WEST VIRGINIA	1,686	723	24	314	521	104
EAST SOUTH CENTRAL	11,466	6,348	220	1,688	2,693	517
ALABAMA	3,050	1,670	35	519	763	63
KENTUCKY	2,307	1,445	41	421	383	17
MISSISSIPPI	1,760	905	38	142	587	88
TENNESSEE	4,349	2,328	106	606	960	349
WEST SOUTH CENTRAL	20,864	10,606	476	2,544	4,932	2,306
ARKANSAS	1,870	735	52	341	531	211
LOUISIANA	3,860	2,002	54	580	954	270
OKLAHOMA	2,164	1,210	102	212	529	111
TEXAS	12,970	6,659	268	1,411	2,918	1,714
MOUNTAIN	11,562	7,594	163	807	2,375	623
ARIZONA	2,351	1,548	27	127	452	197
COLORADO	3,867	2,463	73	307	827	197
IDAHO	753	477	9	9	236	22
MONTANA	844	558	17	14	201	54
NEVADA	463	357	2	24	61	19
NEW MEXICO	1,187	776	4	165	193	49
UTAH	1,646	1,124	25	157	273	67
WYOMING	451	291	6	4	132	18
PACIFIC	30,562	16,506	335	3,599	8,029	2,093
ALASKA	343	195	1	1	121	25
CALIFORNIA	21,896	11,491	221	2,964	5,931	1,289
HAWAII	952	666	1	62	181	42
OREGON	3,048	1,522	61	239	789	437
WASHINGTON	4,323	2,632	51	333	1,007	300
OUTLYING AREAS	2,523	574	17	260	1,273	399

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-46. FULL-TIME SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY DIVISION, STATE, AND SEX: JANUARY 1976

DIVISION AND STATE	TOTAL	MEN			WOMEN		
		NUMBER	PERCENT DISTRIBUTION	PERCENT OF TOTAL	NUMBER	PERCENT DISTRIBUTION	PERCENT OF TOTAL
UNITED STATES TOTAL	230,539	194,610	100.0	84.4	35,929	100.0	15.6
NEW ENGLAND	18,530	15,535	8.0	83.8	2,995	8.3	16.2
CONNECTICUT	4,153	3,273	1.7	78.8	880	2.4	21.2
MAINE	810	732	.4	90.4	78	.2	9.6
MASSACHUSETTS	10,865	9,142	4.7	84.1	1,723	4.8	15.9
NEW HAMPSHIRE	794	708	.4	89.2	86	.2	10.8
RHODE ISLAND	1,090	975	.5	89.4	115	.3	10.6
VERMONT	818	705	.4	86.2	113	.3	13.8
MIDDLE ATLANTIC	39,443	32,954	16.9	83.5	6,489	18.1	16.5
NEW JERSEY	5,391	4,414	2.3	81.9	977	2.7	18.1
NEW YORK	22,285	18,634	9.6	83.6	3,651	10.2	16.4
PENNSYLVANIA	11,767	9,906	5.1	84.2	1,861	5.2	15.8
EAST NORTH CENTRAL	40,459	33,703	17.3	83.3	6,756	18.8	16.7
ILLINOIS	11,656	9,519	4.9	81.7	2,137	5.9	18.3
INDIANA	4,322	3,815	2.0	88.3	507	1.4	11.7
MICHIGAN	9,448	7,794	4.0	82.5	1,654	4.6	17.5
OHIO	8,944	7,613	3.9	85.1	1,331	3.7	14.9
WISCONSIN	6,089	4,962	2.5	81.5	1,127	3.1	18.5
WEST NORTH CENTRAL	19,851	17,057	8.8	85.9	2,794	7.8	14.1
IOWA	3,448	3,041	1.6	88.2	407	1.1	11.8
KANSAS	3,009	2,486	1.3	82.6	523	1.5	17.4
MINNESOTA	4,362	3,646	1.9	83.6	716	2.0	16.4
MISSOURI	5,497	4,740	2.4	86.2	757	2.1	13.8
NEBRASKA	1,854	1,619	.8	87.3	235	.7	12.7
NORTH DAKOTA	734	689	.4	93.9	45	.1	6.1
SOUTH DAKOTA	947	836	.4	88.3	111	.3	11.7
SOUTH ATLANTIC	35,279	29,798	15.3	84.5	5,481	15.3	15.5
DELAWARE	588	509	.3	86.6	79	.2	13.4
DISTRICT OF COLUMBIA	2,314	1,848	.9	79.9	466	1.3	20.1
FLORIDA	6,347	5,444	2.8	85.8	903	2.5	14.2
GEORGIA	4,665	4,044	2.1	86.7	621	1.7	13.3
MARYLAND	5,613	4,638	2.4	82.6	975	2.7	17.4
NORTH CAROLINA	6,794	5,547	2.9	81.6	1,247	3.5	18.4
SOUTH CAROLINA	2,551	2,269	1.2	88.9	282	.8	11.1
VIRGINIA	4,721	4,068	2.1	86.2	653	1.8	13.8
WEST VIRGINIA	1,686	1,431	.7	84.9	255	.7	15.1
EAST SOUTH CENTRAL	11,466	9,844	5.1	85.9	1,622	4.5	14.1
ALABAMA	3,050	2,587	1.3	84.8	463	1.3	15.2
KENTUCKY	2,307	2,061	1.1	89.3	246	.7	10.7
MISSISSIPPI	1,760	1,501	.8	85.3	259	.7	14.7
TENNESSEE	4,349	3,695	1.9	85.0	654	1.8	15.0
WEST SOUTH CENTRAL	20,864	17,505	9.0	83.9	3,359	9.3	16.1
ARKANSAS	1,870	1,521	.8	81.3	349	1.0	18.7
LOUISIANA	3,860	3,232	1.7	83.7	628	1.7	16.3
OKLAHOMA	2,164	1,953	1.0	90.2	211	.6	9.8
TEXAS	12,970	10,799	5.5	83.3	2,171	6.0	16.7
MOUNTAIN	11,562	10,568	5.4	91.4	994	2.8	8.6
ARIZONA	2,351	2,140	1.1	91.0	211	.6	9.0
COLORADO	3,867	3,452	1.8	89.3	415	1.2	10.7
IDAHO	753	708	.4	94.0	45	.1	6.0
MONTANA	844	780	.4	92.4	64	.2	7.6
NEVADA	463	434	.2	93.7	29	.1	6.3
NEW MEXICO	1,187	1,079	.6	90.9	108	.3	9.1
UTAH	1,646	1,561	.8	94.8	85	.2	5.2
WYOMING	451	414	.2	91.8	37	.1	8.2
PACIFIC	30,562	25,848	13.3	84.6	4,714	13.1	15.4
ALASKA	343	298	.2	86.9	45	.1	13.1
CALIFORNIA	21,896	18,658	9.6	85.2	3,238	9.0	14.8
HAWAII	952	811	.4	85.2	141	.4	14.8
OREGON	3,048	2,527	1.3	82.9	521	1.5	17.1
WASHINGTON	4,323	3,554	1.8	82.2	769	2.1	17.8
OUTLYING AREAS	2,523	1,796	.9	71.3	725	2.0	28.7

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-47. R&D SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY FIELD OF EMPLOYMENT, CONTROL, AND EMPLOYMENT STATUS: JANUARY 1976

FIELD OF EMPLOYMENT	PUBLIC			PRIVATE		
	TOTAL	FULL-TIME	PART-TIME	TOTAL	FULL-TIME	PART-TIME
TOTAL	31,359	26,980	4,379	19,635	17,569	2,066
ENGINEERS (TOTAL)	2,846	2,348	498	1,874	1,664	210
AERONAUTICAL & ASTRONAUTICAL ENGINEERS	93	86	7	193	170	23
CHEMICAL ENGINEERS	189	170	19	133	122	11
CIVIL ENGINEERS	366	325	41	127	118	9
ELECTRICAL ENGINEERS	481	419	62	550	478	72
MECHANICAL ENGINEERS	363	284	79	274	246	28
OTHER ENGINEERS	1,354	1,064	290	597	530	67
PHYSICAL SCIENTISTS (TOTAL)	3,787	3,208	579	2,630	2,437	193
CHEMISTS	1,660	1,345	315	1,279	1,186	93
PHYSICISTS	1,307	1,156	151	1,098	1,023	75
OTHER PHYSICAL SCIENTISTS	820	707	113	253	228	25
ENVIRONMENTAL SCIENTISTS (TOTAL)	1,624	1,394	230	547	515	32
EARTH SCIENTISTS	810	681	129	294	266	28
ATMOSPHERIC SCIENTISTS	233	187	46	64	61	3
OCEANOGRAPHERS	581	526	55	189	188	1
MATHEMATICAL SCIENTISTS (TOTAL)	937	839	98	709	650	59
MATHEMATICIANS (EXCLUDING COMPUTER SCIENTISTS)	466	423	43	427	390	37
COMPUTER SCIENTISTS (EXCLUDING PROGRAMMERS)	471	416	55	282	260	22
LIFE SCIENTISTS (TOTAL)	18,415	16,103	2,312	12,336	11,001	1,335
AGRICULTURAL SCIENTISTS	4,364	4,027	337	171	170	1
BIOLOGICAL SCIENTISTS	6,557	5,829	728	4,589	4,246	343
MEDICAL SCIENTISTS	7,494	6,247	1,247	7,576	6,585	991
PSYCHOLOGISTS (TOTAL)	986	770	216	537	445	92
SOCIAL SCIENTISTS (TOTAL)	2,764	2,318	446	1,002	857	145
ECONOMISTS	1,008	908	100	252	228	24
SOCIOLOGISTS	503	422	81	257	212	45
POLITICAL SCIENTISTS	347	276	71	167	136	31
OTHER SOCIAL SCIENTISTS	906	712	194	326	281	45

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-48. R&D SCIENTISTS AND ENGINEERS EMPLOYED IN INSTITUTIONS AWARDING DOCTORATE DEGREES IN THE SCIENCES AND ENGINEERING, BY FIELD OF EMPLOYMENT, CONTROL, AND EMPLOYMENT STATUS: JANUARY 1976

FIELD OF EMPLOYMENT	PUBLIC			PRIVATE		
	TOTAL	FULL-TIME	PART-TIME	TOTAL	FULL-TIME	PART-TIME
TOTAL	30,626	26,320	4,306	19,342	17,333	2,009
ENGINEERS (TOTAL)	2,802	2,311	491	1,849	1,643	206
AERONAUTICAL & ASTRONAUTICAL ENGINEERS	91	84	7	193	170	23
CHEMICAL ENGINEERS	187	168	19	132	122	10
CIVIL ENGINEERS	358	318	40	124	115	9
ELECTRICAL ENGINEERS	472	410	62	537	468	69
MECHANICAL ENGINEERS	351	274	77	271	243	28
OTHER ENGINEERS	1,343	1,057	286	592	525	67
PHYSICAL SCIENTISTS (TOTAL)	3,672	3,103	569	2,545	2,376	169
CHEMISTS	1,585	1,275	310	1,231	1,148	83
PHYSICISTS	1,275	1,124	151	1,067	1,005	62
OTHER PHYSICAL SCIENTISTS	812	704	108	247	223	24
ENVIRONMENTAL SCIENTISTS (TOTAL)	1,541	1,339	202	544	514	30
EARTH SCIENTISTS	761	645	116	291	265	26
ATMOSPHERIC SCIENTISTS	233	187	46	64	61	3
OCEANOGRAPHERS	547	507	40	189	188	1
MATHEMATICAL SCIENTISTS (TOTAL)	880	784	96	664	612	52
MATHEMATICIANS (EXCLUDING COMPUTER SCIENTISTS)	446	405	41	404	374	30
COMPUTER SCIENTISTS (EXCLUDING PROGRAMMERS)	434	379	55	260	238	22
LIFE SCIENTISTS (TOTAL)	18,198	15,903	2,295	12,264	10,944	1,320
AGRICULTURAL SCIENTISTS	4,287	3,951	336	170	169	1
BIOLOGICAL SCIENTISTS	6,440	5,727	713	4,537	4,202	335
MEDICAL SCIENTISTS	7,471	6,225	1,246	7,557	6,573	984
PSYCHOLOGISTS (TOTAL)	930	717	213	516	426	90
SOCIAL SCIENTISTS (TOTAL)	2,603	2,163	440	960	818	142
ECONOMISTS	977	878	99	247	224	23
SOCIOLOGISTS	449	372	77	246	202	44
POLITICAL SCIENTISTS	326	255	71	161	131	30
OTHER SOCIAL SCIENTISTS	851	658	193	306	261	45

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-49. R&D SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY DIVISION, STATE, CONTROL, AND EMPLOYMENT STATUS: JANUARY 1976

DIVISION AND STATE	PUBLIC			PRIVATE		
	TOTAL	FULL-TIME	PART-TIME	TOTAL	FULL-TIME	PART-TIME
UNITED STATES TOTAL	31,359	26,980	4,379	19,635	17,569	2,066
NEW ENGLAND	812	704	108	4,447	3,893	554
CONNECTICUT	344	274	70	1,122	976	146
MAINE	179	173	6	0	0	0
MASSACHUSETTS	75	62	13	3,148	2,777	371
NEW HAMPSHIRE	37	35	2	85	57	28
RHODE ISLAND	96	90	6	92	83	9
VERMONT	81	70	11	0	0	0
MIDDLE ATLANTIC	2,648	2,335	313	4,603	4,022	581
NEW JERSEY	568	513	55	317	296	21
NEW YORK	1,221	1,052	169	3,717	3,279	438
PENNSYLVANIA	859	770	89	569	447	122
EAST NORTH CENTRAL	6,416	5,329	1,087	2,238	1,943	295
ILLINOIS	1,334	1,159	175	1,322	1,098	224
INDIANA	442	398	44	71	63	8
MICHIGAN	1,873	1,612	261	8	7	1
OHIO	1,031	726	305	726	695	31
WISCONSIN	1,736	1,434	302	111	80	31
WEST NORTH CENTRAL	2,891	2,644	247	1,188	1,135	53
IOWA	794	732	62	4	4	0
KANSAS	637	588	49	0	0	0
MINNESOTA	353	268	85	16	15	1
MISSOURI	536	524	12	1,154	1,104	50
NEBRASKA	211	201	10	12	11	1
NORTH DAKOTA	165	163	2	0	0	0
SOUTH DAKOTA	195	168	27	2	1	1
SOUTH ATLANTIC	4,092	3,848	244	3,364	3,208	156
DELAWARE	133	128	5	0	0	0
DISTRICT OF COLUMBIA	0	0	0	491	401	90
FLORIDA	1,093	1,054	39	405	365	40
GEORGIA	1,000	913	87	178	178	0
MARYLAND	252	214	38	1,558	1,549	9
NORTH CAROLINA	484	459	25	705	691	14
SOUTH CAROLINA	312	292	20	2	1	1
VIRGINIA	693	672	21	25	23	2
WEST VIRGINIA	125	116	9	0	0	0
EAST SOUTH CENTRAL	1,664	1,608	56	418	355	63
ALABAMA	612	591	21	7	7	0
KENTUCKY	352	339	13	3	3	0
MISSISSIPPI	332	331	1	1	1	0
TENNESSEE	368	347	21	407	344	63
WEST SOUTH CENTRAL	3,193	2,960	233	792	700	92
ARKANSAS	177	169	8	1	1	0
LOUISIANA	380	362	18	29	21	8
OKLAHOMA	296	288	8	13	13	0
TEXAS	2,340	2,141	199	749	665	84
MOUNTAIN	2,649	2,392	257	238	213	25
ARIZONA	858	708	150	2	2	0
COLORADO	509	486	23	172	147	25
IDAHO	130	125	5	0	0	0
MONTANA	196	187	9	0	0	0
NEVADA	147	135	12	0	0	0
NEW MEXICO	284	271	13	1	1	0
UTAH	428	383	45	63	63	0
WYOMING	97	97	0	0	0	0
PACIFIC	6,425	4,688	1,737	2,337	2,090	247
ALASKA	140	140	0	0	0	0
CALIFORNIA	3,672	2,310	1,362	2,289	2,044	245
HAWAII	264	240	24	0	0	0
OREGON	952	789	163	46	44	2
WASHINGTON	1,397	1,209	188	2	2	0
OUTLYING AREAS	569	472	97	10	10	0

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-50. PH.D. AND SC.D. SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY MAJOR FIELD OF EMPLOYMENT, EMPLOYMENT STATUS, AND TYPE OF INSTITUTION: JANUARY 1975-76

FIELD AND EMPLOYMENT STATUS	TOTAL		INSTITUTIONS GRANTING:									
			DOCTORATE IN S&E		MASTER'S IN S&E		BACHELOR'S IN S&E		OTHER DEGREES		2-YEAR INSTITUTIONS	
	1975	1976	1975	1976	1975	1976	1975	1976	1975	1976	1975	1976
ALL FIELDS												
TOTAL	136,810	139,936	95,906	99,132	20,743	19,992	14,916	15,219	670	406	4,575	5,187
FULL-TIME	122,936	126,160	87,147	90,570	18,614	17,914	13,493	13,757	429	249	3,253	3,670
PART-TIME	13,874	13,776	8,759	8,562	2,129	2,078	1,423	1,462	241	157	1,322	1,517
ENGINEERS												
TOTAL	14,725	14,984	13,038	13,353	1,125	1,010	379	373	2	18	181	230
FULL-TIME	13,215	13,451	11,789	12,085	959	832	349	355	1	18	117	161
PART-TIME	1,510	1,533	1,249	1,268	166	178	30	18	1	0	64	69
PHYSICAL SCIENTISTS												
TOTAL	21,554	21,979	13,497	13,983	3,560	3,425	3,356	3,294	100	44	1,041	1,233
FULL-TIME	19,785	20,270	12,551	13,102	3,250	3,171	3,111	3,053	76	26	797	918
PART-TIME	1,769	1,709	946	881	310	254	245	241	24	18	244	315
ENVIRONMENTAL SCIENTISTS												
TOTAL	5,007	5,241	3,643	3,797	858	903	385	390	28	22	93	129
FULL-TIME	4,603	4,899	3,363	3,591	790	841	358	361	18	9	74	97
PART-TIME	404	342	280	206	68	62	27	29	10	13	19	32
MATHEMATICAL SCIENTISTS												
TOTAL	13,062	13,386	8,110	8,445	2,655	2,487	1,807	1,843	59	42	431	569
FULL-TIME	11,967	12,223	7,515	7,856	2,435	2,279	1,700	1,695	44	26	273	367
PART-TIME	1,095	1,163	595	589	220	208	107	148	15	16	158	202
LIFE SCIENTISTS												
TOTAL	41,749	42,818	34,080	35,255	3,643	3,448	2,864	2,977	181	77	981	1,061
FULL-TIME	37,987	39,041	31,078	32,176	3,391	3,227	2,687	2,774	77	48	756	816
PART-TIME	3,762	3,777	3,002	3,079	252	221	177	203	104	29	227	245
PSYCHOLOGISTS												
TOTAL	13,583	13,873	7,075	7,237	3,374	3,276	2,261	2,363	117	78	756	919
FULL-TIME	11,174	11,438	5,911	6,155	2,817	2,734	1,900	1,957	94	48	452	544
PART-TIME	2,409	2,435	1,164	1,082	557	542	361	406	23	30	304	375
SOCIAL SCIENTISTS												
TOTAL	27,130	27,655	16,463	17,062	5,528	5,443	3,864	3,979	183	125	1,092	1,046
FULL-TIME	24,205	24,838	14,940	15,605	4,972	4,830	3,388	3,562	119	74	786	767
PART-TIME	2,925	2,817	1,523	1,457	556	613	476	417	64	51	306	279

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-51. TECHNICIANS EMPLOYED IN THE SCIENCES AND ENGINEERING AT UNIVERSITIES AND COLLEGES, BY FIELD OF EMPLOYMENT AND FUNCTION: JANUARY 1975-76

FIELD OF EMPLOYMENT	TOTAL		RESEARCH & DEVELOPMENT		OTHER ACTIVITIES	
	1975	1976	1975	1976	1975	1976
TOTAL	57,397	56,421	36,645	36,507	20,752	19,914
ENGINEERING TECHNICIANS	5,416	5,700	2,978	2,982	2,438	2,718
PHYSICAL SCIENCE TECHNICIANS	4,966	5,220	2,804	3,061	2,162	2,159
ENVIRONMENTAL SCIENCE TECHNICIANS	1,566	1,782	1,250	1,374	316	408
MATHEMATICS TECHNICIANS	4,355	4,264	1,326	1,418	3,029	2,846
LIFE SCIENCE TECHNICIANS	38,795	36,566	26,869	25,671	11,926	10,895
PSYCHOLOGY TECHNICIANS	1,023	1,798	687	1,433	336	365
SOCIAL SCIENCE TECHNICIANS	1,276	1,091	731	568	545	523

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-52. TECHNICIANS EMPLOYED IN THE SCIENCES AND ENGINEERING AT UNIVERSITIES AND COLLEGES, BY FIELD OF EMPLOYMENT AND TYPE OF INSTITUTION: JANUARY 1976

FIELD OF EMPLOYMENT	TOTAL	INSTITUTIONS GRANTING:				2-YEAR INSTITUTIONS
		DOCTORATE IN S&E	MASTER'S IN S&E	BACHELOR'S IN S&E	OTHER DEGREES	
TOTAL	56,421	51,053	1,909	1,307	18	2,134
ENGINEERING TECHNICIANS	5,700	4,537	326	264	0	573
PHYSICAL SCIENCE TECHNICIANS	5,220	4,194	438	284	3	301
ENVIRONMENTAL SCIENCE TECHNICIANS	1,782	1,627	89	36	2	28
MATHEMATICS TECHNICIANS	4,264	3,023	369	285	6	581
LIFE SCIENCE TECHNICIANS	36,566	35,084	544	340	6	592
PSYCHOLOGY TECHNICIANS	1,798	1,621	95	46	1	35
SOCIAL SCIENCE TECHNICIANS	1,091	967	46	52	0	24

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE B-53. SUMMARY DATA FOR 2,189 UNIVERSITIES AND COLLEGES: JANUARY 1976

ITEM 1. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2110	22799	17856	4012	931
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2111	963	696	256	11
(2)CHEMICAL ENGINEERS	2112	1622	1281	292	49
(3)CIVIL ENGINEERS	2113	4008	3425	443	140
(4)ELECTRICAL ENGINEERS	2114	5393	4338	897	158
(5)MECHANICAL ENGINEERS	2115	4351	3669	530	152
(6)OTHER ENGINEERS	2116	6462	4447	1594	421
PHYSICAL SCIENTISTS (TOTAL)	2120	27182	21044	5645	493
(1)CHEMISTS	2121	14172	11347	2531	294
(2)PHYSICISTS	2122	10867	8535	2179	153
(3)OTHER PHYSICAL SCIENTISTS	2123	2143	1162	935	46
ENVIRONMENTAL SCIENTISTS (TOTAL)	2130	7260	5186	1909	165
(1)EARTH SCIENTISTS	2131	5592	4519	947	126
(2)ATMOSPHERIC SCIENTISTS	2132	577	316	248	13
(3)OCEANOGRAPHERS	2133	1091	351	714	26
MATHEMATICAL SCIENTISTS (TOTAL)	2140	23081	20884	1489	708
(1)MATHEMATICIANS	2141	18952	17969	813	170
(2)COMPUTER SCIENTISTS	2142	4129	2915	676	538
LIFE SCIENTISTS (TOTAL)	2150	92589	57015	27104	8470
(1)AGRICULTURAL SCIENTISTS	2151	12963	4258	4197	4508
(2)BIOLOGICAL SCIENTISTS	2152	34744	23730	10075	939
(3)MEDICAL SCIENTISTS	2153	44882	29027	12832	3023
PSYCHOLOGISTS (TOTAL)	2160	16758	14189	1215	1354
SOCIAL SCIENTISTS (TOTAL)	2170	40870	36210	3175	1485
(1)ECONOMISTS	2171	10410	8795	1136	479
(2)SOCIOLOGISTS	2172	11389	10472	634	283
(3)POLITICAL SCIENTISTS	2173	9027	8418	412	197
(4)OTHER SOCIAL SCIENTISTS	2174	10044	8525	993	526
TOTAL HEADCOUNT	2100	230539	172384	44549	13606
FTE DISTRIBUTION, BY FUNCTION	2190	230539	164874	50166	15499

ITEM 2. FULL-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2210	126160	97309	24686	4165
ED.D., J.D., ETC.	2220	3393	2913	268	212
M.D., D.D.S., D.V.M., ETC.	2230	30369	20838	7385	2146
MASTER'S	2240	53947	44095	5873	3979
BACHELOR'S OR THE EQUIVALENT	2250	16670	7229	6337	3104
TOTAL	2200	230539	172384	44549	13606

ITEM 3. PART-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2310	5497	4714	708	75
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2311	164	129	30	5
(2)CHEMICAL ENGINEERS	2312	211	179	30	2
(3)CIVIL ENGINEERS	2313	987	932	50	5
(4)ELECTRICAL ENGINEERS	2314	1522	1379	134	9
(5)MECHANICAL ENGINEERS	2315	939	824	107	8
(6)OTHER ENGINEERS	2316	1674	1271	357	46
PHYSICAL SCIENTISTS (TOTAL)	2320	4315	3494	772	49
(1)CHEMISTS	2321	2421	1975	408	38
(2)PHYSICISTS	2322	1373	1141	226	6
(3)OTHER PHYSICAL SCIENTISTS	2323	521	378	138	5
ENVIRONMENTAL SCIENTISTS (TOTAL)	2330	1202	932	262	8
(1)EARTH SCIENTISTS	2331	965	804	157	4
(2)ATMOSPHERIC SCIENTISTS	2332	117	67	49	1
(3)OCEANOGRAPHERS	2333	120	61	56	3
MATHEMATICAL SCIENTISTS (TOTAL)	2340	6717	6432	157	128
(1)MATHEMATICIANS	2341	5078	4948	80	50
(2)COMPUTER SCIENTISTS	2342	1639	1484	77	78
LIFE SCIENTISTS (TOTAL)	2350	23134	18857	3647	630
(1)AGRICULTURAL SCIENTISTS	2351	1191	761	338	92
(2)BIOLOGICAL SCIENTISTS	2352	4990	3848	1071	71
(3)MEDICAL SCIENTISTS	2353	16953	14248	2238	467
PSYCHOLOGISTS (TOTAL)	2360	6099	5533	308	258
SOCIAL SCIENTISTS (TOTAL)	2370	11701	10870	591	240
(1)ECONOMISTS	2371	2760	2584	124	52
(2)SOCIOLOGISTS	2372	3770	3592	126	52
(3)POLITICAL SCIENTISTS	2373	2282	2083	102	97
(4)OTHER SOCIAL SCIENTISTS	2374	2889	2611	239	39
TOTAL HEADCOUNT	2300	58665	50832	6445	1388
FTE DISTRIBUTION, BY FUNCTION	2390	22818	18743	3349	726

ITEM 4. PART-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2410	13776	11021	2386	369
ED.D., J.D., ETC.	2420	978	904	32	42
M.D., D.D.S., D.V.M., ETC.	2430	14744	12772	1561	411
MASTER'S	2440	21543	20003	1173	367
BACHELOR'S OR THE EQUIVALENT	2450	7624	6134	1293	199
TOTAL	2400	58665	50832	6445	1388

TABLE B-53.
CONTINUED

ITEM 5. SCIENTISTS AND ENGINEERS WITH DOCTORATE DEGREES, BY FIELD IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	FULL-TIME	PART-TIME
ENGINEERS	2510	14984	13451	1533
PHYSICAL SCIENTISTS	2520	21979	20270	1709
ENVIRONMENTAL SCIENTISTS	2530	5241	4899	342
MATHEMATICAL SCIENTISTS	2540	13386	12223	1163
LIFE SCIENTISTS	2550	42818	39041	3777
PSYCHOLOGISTS	2560	13873	11438	2435
SOCIAL SCIENTISTS	2570	27655	24838	2817
TOTAL	2500	139936	126160	13776

ITEM 6. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD IN WHICH PRIMARILY EMPLOYED, AND SEX, JANUARY 1976

		TOTAL	MEN	WOMEN
ENGINEERS (TOTAL)	2610	22799	22352	447
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2611	963	935	28
(2)CHEMICAL ENGINEERS	2612	1622	1585	37
(3)CIVIL ENGINEERS	2613	4008	3925	83
(4)ELECTRICAL ENGINEERS	2614	5393	5319	74
(5)MECHANICAL ENGINEERS	2615	4351	4306	45
(6)OTHER ENGINEERS	2616	6462	6282	180
PHYSICAL SCIENTISTS (TOTAL)	2620	27182	25061	2121
(1)CHEMISTS	2621	14172	12651	1521
(2)PHYSICISTS	2622	10867	10465	402
(3)OTHER PHYSICAL SCIENTISTS	2623	2143	1945	198
ENVIRONMENTAL SCIENTISTS (TOTAL)	2630	7260	6881	379
(1)EARTH SCIENTISTS	2631	5592	5313	279
(2)ATMOSPHERIC SCIENTISTS	2632	577	544	33
(3)OCEANOGRAPHERS	2633	1091	1024	67
MATHEMATICAL SCIENTISTS (TOTAL)	2640	23081	19988	3093
(1)MATHEMATICIANS	2641	18957	16343	2614
(2)COMPUTER SCIENTISTS	2642	4124	3645	479
LIFE SCIENTISTS (TOTAL)	2650	92589	73910	18679
(1)AGRICULTURAL SCIENTISTS	2651	12963	11546	1417
(2)BIOLOGICAL SCIENTISTS	2652	34744	27757	6987
(3)MEDICAL SCIENTISTS	2653	44882	34607	10275
PSYCHOLOGISTS (TOTAL)	2660	16758	12781	3977
SOCIAL SCIENTISTS (TOTAL)	2670	40870	33637	7233
(1)ECONOMISTS	2671	10410	9458	952
(2)SOCIOLOGISTS	2672	11389	8472	2917
(3)POLITICAL SCIENTISTS	2673	9027	7999	1028
(4)OTHER SOCIAL SCIENTISTS	2674	10044	7708	2336
TOTAL HEADCOUNT	2600	230539	194610	35929

ITEM 7. TECHNICIANS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	R&D	OTHER ACTIVITIES
ENGINEERING TECHNICIANS	2810	5700	2982	2718
PHYSICAL SCIENCE TECHNICIANS	2820	5220	3061	2159
ENVIRONMENTAL SCIENCE TECHNICIANS	2830	1782	1374	408
MATHEMATICS TECHNICIANS	2840	4264	1418	2846
LIFE SCIENCE TECHNICIANS	2850	36566	25671	10895
PSYCHOLOGY TECHNICIANS	2860	1798	1433	365
SOCIAL SCIENCE TECHNICIANS	2870	1091	568	523
TOTAL	2800	56421	36507	19914

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-54. SUMMARY DATA FOR PUBLIC UNIVERSITIES AND COLLEGES: JANUARY 1976

ITEM 1. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2110	17015	13899	2348	768
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2111	635	540	86	9
(2)CHEMICAL ENGINEERS	2112	1114	901	170	43
(3)CIVIL ENGINEERS	2113	3202	2753	325	124
(4)ELECTRICAL ENGINEERS	2114	3738	3214	419	105
(5)MECHANICAL ENGINEERS	2115	3211	2804	284	123
(6)OTHER ENGINEERS	2116	5115	3687	1064	364
PHYSICAL SCIENTISTS (TOTAL)	2120	18087	14516	3208	363
(1)CHEMISTS	2121	9320	7763	1345	212
(2)PHYSICISTS	2122	7105	5833	1156	116
(3)OTHER PHYSICAL SCIENTISTS	2123	1662	920	707	35
ENVIRONMENTAL SCIENTISTS (TOTAL)	2130	5759	4215	1394	150
(1)EARTH SCIENTISTS	2131	4450	3654	681	115
(2)ATMOSPHERIC SCIENTISTS	2132	472	274	187	11
(3)OCEANOGRAPHERS	2133	837	287	526	24
MATHEMATICAL SCIENTISTS (TOTAL)	2140	17196	15775	839	582
(1)MATHEMATICIANS	2141	14078	13513	423	142
(2)COMPUTER SCIENTISTS	2142	3118	2262	416	440
LIFE SCIENTISTS (TOTAL)	2150	63080	39854	16103	7123
(1)AGRICULTURAL SCIENTISTS	2151	12453	4015	4027	4411
(2)BIOLOGICAL SCIENTISTS	2152	23109	16533	5829	747
(3)MEDICAL SCIENTISTS	2153	27518	19306	6247	1965
PSYCHOLOGISTS (TOTAL)	2160	12037	10160	770	1107
SOCIAL SCIENTISTS (TOTAL)	2170	28954	25477	2318	1159
(1)ECONOMISTS	2171	7116	5825	908	383
(2)SOCIOLOGISTS	2172	7959	7344	422	193
(3)POLITICAL SCIENTISTS	2173	6121	5689	276	156
(4)OTHER SOCIAL SCIENTISTS	2174	7758	6619	712	427
TOTAL HEADCOUNT	2100	162128	123896	26980	11252
FTE DISTRIBUTION, BY FUNCTION	2190	162128	119213	30149	12766

ITEM 2. FULL-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2210	86961	67909	15556	3496
ED.D., J.D., ETC.	2220	2709	2384	160	165
M.D., D.D.S., D.V.M., ETC.	2230	16575	12519	2826	1230
MASTER'S	2240	42958	35186	4285	3487
BACHELOR'S OR THE EQUIVALENT	2250	12925	5898	4153	2874
TOTAL	2200	162128	123896	26980	11252

ITEM 3. PART-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2310	3894	3361	498	35
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2311	105	97	7	1
(2)CHEMICAL ENGINEERS	2312	138	118	19	1
(3)CIVIL ENGINEERS	2313	682	638	41	3
(4)ELECTRICAL ENGINEERS	2314	1008	941	62	5
(5)MECHANICAL ENGINEERS	2315	641	558	79	4
(6)OTHER ENGINEERS	2316	1320	1009	290	21
PHYSICAL SCIENTISTS (TOTAL)	2320	3065	2452	579	34
(1)CHEMISTS	2321	1721	1379	315	27
(2)PHYSICISTS	2322	934	780	151	3
(3)OTHER PHYSICAL SCIENTISTS	2323	410	293	113	4
ENVIRONMENTAL SCIENTISTS (TOTAL)	2330	906	671	230	5
(1)EARTH SCIENTISTS	2331	704	573	129	2
(2)ATMOSPHERIC SCIENTISTS	2332	105	59	46	0
(3)OCEANOGRAPHERS	2333	97	39	55	3
MATHEMATICAL SCIENTISTS (TOTAL)	2340	4990	4840	98	52
(1)MATHEMATICIANS	2341	3894	3812	43	39
(2)COMPUTER SCIENTISTS	2342	1096	1028	55	13
LIFE SCIENTISTS (TOTAL)	2350	12799	10009	2312	478
(1)AGRICULTURAL SCIENTISTS	2351	1161	732	337	92
(2)BIOLOGICAL SCIENTISTS	2352	3241	2466	728	47
(3)MEDICAL SCIENTISTS	2353	8397	6811	1247	339
PSYCHOLOGISTS (TOTAL)	2360	3740	3363	216	161
SOCIAL SCIENTISTS (TOTAL)	2370	7253	6717	446	90
(1)ECONOMISTS	2371	1513	1393	100	20
(2)SOCIOLOGISTS	2372	2384	2270	81	33
(3)POLITICAL SCIENTISTS	2373	1301	1222	71	8
(4)OTHER SOCIAL SCIENTISTS	2374	2055	1832	194	29
TOTAL HEADCOUNT	2300	36647	31413	4379	855
FTE DISTRIBUTION, BY FUNCTION	2390	14472	11582	2412	478

ITEM 4. PART-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2410	7889	6017	1663	209
ED.D., J.D., ETC.	2420	534	501	27	6
M.D., D.D.S., D.V.M., ETC.	2430	6711	5576	825	310
MASTER'S	2440	15418	14337	861	220
BACHELOR'S OR THE EQUIVALENT	2450	6095	4982	1003	110
TOTAL	2400	36647	31413	4379	855

TABLE B-54.
CONTINUED

ITEM 5. SCIENTISTS AND ENGINEERS WITH DOCTORATE DEGREES, BY FIELD IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	FULL-TIME	PART-TIME
ENGINEERS	2510	10260	9488	772
PHYSICAL SCIENTISTS	2520	13772	12735	1037
ENVIRONMENTAL SCIENTISTS	2530	4081	3836	245
MATHEMATICAL SCIENTISTS	2540	9352	8631	721
LIFE SCIENTISTS	2550	30014	27465	2549
PSYCHOLOGISTS	2560	9012	7776	1236
SOCIAL SCIENTISTS	2570	18359	17030	1329
TOTAL	2500	94850	86961	7889

ITEM 6. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD IN WHICH PRIMARILY EMPLOYED, AND SEX, JANUARY 1976

		TOTAL	MEN	WOMEN
ENGINEERS (TOTAL)	2610	17015	16692	323
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2611	635	618	17
(2)CHEMICAL ENGINEERS	2612	1114	1097	17
(3)CIVIL ENGINEERS	2613	3202	3141	61
(4)ELECTRICAL ENGINEERS	2614	3738	3689	49
(5)MECHANICAL ENGINEERS	2615	3211	3173	38
(6)OTHER ENGINEERS	2616	5115	4974	141
PHYSICAL SCIENTISTS (TOTAL)	2620	18087	16751	1336
(1)CHEMISTS	2621	9320	8385	935
(2)PHYSICISTS	2622	7105	6859	246
(3)OTHER PHYSICAL SCIENTISTS	2623	1662	1507	155
ENVIRONMENTAL SCIENTISTS (TOTAL)	2630	5759	5473	286
(1)EARTH SCIENTISTS	2631	4450	4236	214
(2)ATMOSPHERIC SCIENTISTS	2632	472	450	22
(3)OCEANOGRAPHERS	2633	837	787	50
MATHEMATICAL SCIENTISTS (TOTAL)	2640	17196	14852	2344
(1)MATHEMATICIANS	2641	14083	12115	1968
(2)COMPUTER SCIENTISTS	2642	3113	2737	376
LIFE SCIENTISTS (TOTAL)	2650	63080	50549	12531
(1)AGRICULTURAL SCIENTISTS	2651	12453	11074	1379
(2)BIOLOGICAL SCIENTISTS	2652	23109	18726	4383
(3)MEDICAL SCIENTISTS	2653	27518	20749	6769
PSYCHOLOGISTS (TOTAL)	2660	12037	9188	2849
SOCIAL SCIENTISTS (TOTAL)	2670	28954	23828	5126
(1)ECONOMISTS	2671	7116	6447	669
(2)SOCIOLOGISTS	2672	7959	5972	1987
(3)POLITICAL SCIENTISTS	2673	6121	5439	682
(4)OTHER SOCIAL SCIENTISTS	2674	7758	5970	1788
TOTAL HEADCOUNT	2600	162128	137333	24795

ITEM 7. TECHNICIANS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	R&D	OTHER ACTIVITIES
ENGINEERING TECHNICIANS	2810	4099	1870	2229
PHYSICAL SCIENCE TECHNICIANS	2820	3797	2043	1754
ENVIRONMENTAL SCIENCE TECHNICIANS	2830	1383	1040	343
MATHEMATICS TECHNICIANS	2840	3362	846	2516
LIFE SCIENCE TECHNICIANS	2850	25053	17180	7873
PSYCHOLOGY TECHNICIANS	2860	754	475	279
SOCIAL SCIENCE TECHNICIANS	2870	853	411	442
TOTAL	2800	39301	23865	15436

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-55. SUMMARY DATA FOR PRIVATE UNIVERSITIES AND COLLEGES: JANUARY 1976

ITEM 1. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2110	5784	3957	1664	163
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2111	328	156	170	2
(2)CHEMICAL ENGINEERS	2112	508	380	122	6
(3)CIVIL ENGINEERS	2113	806	672	118	16
(4)ELECTRICAL ENGINEERS	2114	1655	1124	478	53
(5)MECHANICAL ENGINEERS	2115	1140	865	246	29
(6)OTHER ENGINEERS	2116	1347	760	530	57
PHYSICAL SCIENTISTS (TOTAL)	2120	9095	6528	2437	130
(1)CHEMISTS	2121	4852	3584	1186	82
(2)PHYSICISTS	2122	3762	2702	1023	37
(3)OTHER PHYSICAL SCIENTISTS	2123	481	242	228	11
ENVIRONMENTAL SCIENTISTS (TOTAL)	2130	1501	971	515	15
(1)EARTH SCIENTISTS	2131	1142	865	266	11
(2)ATMOSPHERIC SCIENTISTS	2132	105	42	61	2
(3)OCEANOGRAPHERS	2133	254	64	188	2
MATHEMATICAL SCIENTISTS (TOTAL)	2140	5885	5109	650	126
(1)MATHEMATICIANS	2141	4874	4456	390	28
(2)COMPUTER SCIENTISTS	2142	1011	653	260	98
LIFE SCIENTISTS (TOTAL)	2150	29509	17161	11001	1347
(1)AGRICULTURAL SCIENTISTS	2151	510	243	170	97
(2)BIOLOGICAL SCIENTISTS	2152	11635	7197	4246	192
(3)MEDICAL SCIENTISTS	2153	17364	9721	6585	1058
PSYCHOLOGISTS (TOTAL)	2160	4721	4029	445	247
SOCIAL SCIENTISTS (TOTAL)	2170	11916	10733	857	326
(1)ECONOMISTS	2171	3294	2970	228	96
(2)SOCIOLOGISTS	2172	3430	3128	212	90
(3)POLITICAL SCIENTISTS	2173	2906	2729	136	41
(4)OTHER SOCIAL SCIENTISTS	2174	2286	1906	281	99
TOTAL HEADCOUNT	2100	68411	48488	17569	2354
FTE DISTRIBUTION, BY FUNCTION	2190	68411	45661	20017	2733

ITEM 2. FULL-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2210	39199	29400	9130	669
ED.D., J.D., ETC.	2220	684	529	108	47
M.D., D.D.S., D.V.M., ETC.	2230	13794	8319	4559	916
MASTER'S	2240	10989	8909	1588	492
BACHELOR'S OR THE EQUIVALENT	2250	3745	1331	2184	230
TOTAL	2200	68411	48488	17569	2354

ITEM 3. PART-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2310	1603	1353	210	40
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2311	59	32	23	4
(2)CHEMICAL ENGINEERS	2312	73	61	11	1
(3)CIVIL ENGINEERS	2313	305	294	9	2
(4)ELECTRICAL ENGINEERS	2314	514	438	72	4
(5)MECHANICAL ENGINEERS	2315	298	266	28	4
(6)OTHER ENGINEERS	2316	354	262	67	25
PHYSICAL SCIENTISTS (TOTAL)	2320	1250	1042	193	15
(1)CHEMISTS	2321	700	596	93	11
(2)PHYSICISTS	2322	439	361	75	3
(3)OTHER PHYSICAL SCIENTISTS	2323	111	85	25	1
ENVIRONMENTAL SCIENTISTS (TOTAL)	2330	296	261	32	3
(1)EARTH SCIENTISTS	2331	261	231	28	2
(2)ATMOSPHERIC SCIENTISTS	2332	12	8	3	1
(3)OCEANOGRAPHERS	2333	23	22	1	0
MATHEMATICAL SCIENTISTS (TOTAL)	2340	1727	1592	59	76
(1)MATHEMATICIANS	2341	1184	1136	37	11
(2)COMPUTER SCIENTISTS	2342	543	456	22	65
LIFE SCIENTISTS (TOTAL)	2350	10335	8848	1335	152
(1)AGRICULTURAL SCIENTISTS	2351	30	29	1	0
(2)BIOLOGICAL SCIENTISTS	2352	1749	1382	343	24
(3)MEDICAL SCIENTISTS	2353	8556	7437	991	128
PSYCHOLOGISTS (TOTAL)	2360	2359	2170	92	97
SOCIAL SCIENTISTS (TOTAL)	2370	4448	4153	145	150
(1)ECONOMISTS	2371	1247	1191	24	32
(2)SOCIOLOGISTS	2372	1386	1322	45	19
(3)POLITICAL SCIENTISTS	2373	981	861	31	89
(4)OTHER SOCIAL SCIENTISTS	2374	834	779	45	10
TOTAL HEADCOUNT	2300	22018	19419	2066	533
FTE DISTRIBUTION, BY FUNCTION	2390	8346	7161	937	248

ITEM 4. PART-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2410	5887	5004	723	160
ED.D., J.D., ETC.	2420	444	403	5	36
M.D., D.D.S., D.V.M., ETC.	2430	8033	7196	736	101
MASTER'S	2440	6125	5666	312	147
BACHELOR'S OR THE EQUIVALENT	2450	1529	1150	290	89
TOTAL	2400	22018	19419	2066	533

TABLE B-55.
CONTINUED

ITEM 5. SCIENTISTS AND ENGINEERS WITH DOCTORATE DEGREES, BY FIELD IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	FULL-TIME	PART-TIME
ENGINEERS	2510	4724	3963	761
PHYSICAL SCIENTISTS	2520	8207	7535	672
ENVIRONMENTAL SCIENTISTS	2530	1160	1063	97
MATHEMATICAL SCIENTISTS	2540	4034	3592	442
LIFE SCIENTISTS	2550	12804	11576	1228
PSYCHOLOGISTS	2560	4861	3662	1199
SOCIAL SCIENTISTS	2570	9296	7808	1488
TOTAL	2500	45086	39199	5887

ITEM 6. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD IN WHICH PRIMARILY EMPLOYED, AND SEX, JANUARY 1976

		TOTAL	MEN	WOMEN
ENGINEERS (TOTAL)	2610	5784	5660	124
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2611	328	317	11
(2)CHEMICAL ENGINEERS	2612	508	488	20
(3)CIVIL ENGINEERS	2613	806	784	22
(4)ELECTRICAL ENGINEERS	2614	1655	1630	25
(5)MECHANICAL ENGINEERS	2615	1140	1133	7
(6)OTHER ENGINEERS	2616	1347	1308	39
PHYSICAL SCIENTISTS (TOTAL)	2620	9095	8310	785
(1)CHEMISTS	2621	4852	4266	586
(2)PHYSICISTS	2622	3762	3606	156
(3)OTHER PHYSICAL SCIENTISTS	2623	481	438	43
ENVIRONMENTAL SCIENTISTS (TOTAL)	2630	1501	1408	93
(1)EARTH SCIENTISTS	2631	1142	1077	65
(2)ATMOSPHERIC SCIENTISTS	2632	105	94	11
(3)OCEANOGRAPHERS	2633	254	237	17
MATHEMATICAL SCIENTISTS (TOTAL)	2640	5885	5136	749
(1)MATHEMATICIANS	2641	4874	4228	646
(2)COMPUTER SCIENTISTS	2642	1011	908	103
LIFE SCIENTISTS (TOTAL)	2650	29509	23361	6148
(1)AGRICULTURAL SCIENTISTS	2651	510	472	38
(2)BIOLOGICAL SCIENTISTS	2652	11635	9031	2604
(3)MEDICAL SCIENTISTS	2653	17364	13858	3506
PSYCHOLOGISTS (TOTAL)	2660	4721	3593	1128
SOCIAL SCIENTISTS (TOTAL)	2670	11916	9809	2107
(1)ECONOMISTS	2671	3294	3011	283
(2)SOCIOLOGISTS	2672	3430	2500	930
(3)POLITICAL SCIENTISTS	2673	2906	2560	346
(4)OTHER SOCIAL SCIENTISTS	2674	2286	1738	548
TOTAL HEADCOUNT	2600	68411	57277	11134

ITEM 7. TECHNICIANS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	R&D	OTHER ACTIVITIES
ENGINEERING TECHNICIANS	2810	1601	1112	489
PHYSICAL SCIENCE TECHNICIANS	2820	1423	1018	405
ENVIRONMENTAL SCIENCE TECHNICIANS	2830	399	334	65
MATHEMATICS TECHNICIANS	2840	902	572	330
LIFE SCIENCE TECHNICIANS	2850	11513	8491	3022
PSYCHOLOGY TECHNICIANS	2860	1044	958	86
SOCIAL SCIENCE TECHNICIANS	2870	238	157	81
TOTAL	2800	17120	12642	4478

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-56. SUMMARY DATA FOR INSTITUTIONS AWARDING DOCTORATE DEGREES IN THE SCIENCES OR ENGINEERING: JANUARY 1976

ITEM 1. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2110	16864	12165	3954	745
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2111	774	510	254	10
(2)CHEMICAL ENGINEERS	2112	1421	1091	290	40
(3)CIVIL ENGINEERS	2113	2870	2344	433	93
(4)ELECTRICAL ENGINEERS	2114	3600	2620	878	102
(5)MECHANICAL ENGINEERS	2115	2985	2365	517	103
(6)OTHER ENGINEERS	2116	5214	3235	1582	397
PHYSICAL SCIENTISTS (TOTAL)	2120	15498	9695	5479	324
(1)CHEMISTS	2121	7449	4839	2423	187
(2)PHYSICISTS	2122	6580	4336	2129	115
(3)OTHER PHYSICAL SCIENTISTS	2123	1469	520	927	22
ENVIRONMENTAL SCIENTISTS (TOTAL)	2130	4764	2767	1853	144
(1)EARTH SCIENTISTS	2131	3328	2309	910	109
(2)ATMOSPHERIC SCIENTISTS	2132	485	227	248	10
(3)OCEANOGRAPHERS	2133	951	231	695	25
MATHEMATICAL SCIENTISTS (TOTAL)	2140	10393	8565	1396	432
(1)MATHEMATICIANS	2141	8098	7229	779	90
(2)COMPUTER SCIENTISTS	2142	2295	1336	617	342
LIFE SCIENTISTS (TOTAL)	2150	77948	42851	26847	8250
(1)AGRICULTURAL SCIENTISTS	2151	11433	2847	4120	4466
(2)BIOLOGICAL SCIENTISTS	2152	23783	13035	9929	819
(3)MEDICAL SCIENTISTS	2153	42732	26969	12798	2965
PSYCHOLOGISTS (TOTAL)	2160	7479	5852	1143	484
SOCIAL SCIENTISTS (TOTAL)	2170	21262	17097	2981	1184
(1)ECONOMISTS	2171	5969	4449	1102	418
(2)SOCIOLOGISTS	2172	5153	4369	574	210
(3)POLITICAL SCIENTISTS	2173	4272	3759	386	127
(4)OTHER SOCIAL SCIENTISTS	2174	5868	4520	919	429
TOTAL HEADCOUNT	2100	154208	98992	43653	11563
FTE DISTRIBUTION, BY FUNCTION	2190	154208	92055	48875	13278

ITEM 2. FULL-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2210	90570	62954	24161	3455
ED.D., J.D., ETC.	2220	1219	882	235	102
M.D., D.D.S., D.V.M., ETC.	2230	29489	20001	7373	2115
MASTER'S	2240	20641	11957	5647	3037
BACHELOR'S OR THE EQUIVALENT	2250	12289	3198	6237	2854
TOTAL	2200	154208	98992	43653	11563

ITEM 3. PART-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2310	2942	2176	697	69
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2311	89	54	30	5
(2)CHEMICAL ENGINEERS	2312	165	134	29	2
(3)CIVIL ENGINEERS	2313	524	471	49	4
(4)ELECTRICAL ENGINEERS	2314	694	557	131	6
(5)MECHANICAL ENGINEERS	2315	454	342	105	7
(6)OTHER ENGINEERS	2316	1016	618	353	45
PHYSICAL SCIENTISTS (TOTAL)	2320	1778	1001	738	39
(1)CHEMISTS	2321	1004	580	393	31
(2)PHYSICISTS	2322	587	370	213	4
(3)OTHER PHYSICAL SCIENTISTS	2323	187	51	132	4
ENVIRONMENTAL SCIENTISTS (TOTAL)	2330	521	283	232	6
(1)EARTH SCIENTISTS	2331	389	245	142	2
(2)ATMOSPHERIC SCIENTISTS	2332	65	15	49	1
(3)OCEANOGRAPHERS	2333	67	23	41	3
MATHEMATICAL SCIENTISTS (TOTAL)	2340	1710	1443	148	119
(1)MATHEMATICIANS	2341	1165	1048	71	46
(2)COMPUTER SCIENTISTS	2342	545	395	77	73
LIFE SCIENTISTS (TOTAL)	2350	19453	15236	3615	602
(1)AGRICULTURAL SCIENTISTS	2351	765	336	337	92
(2)BIOLOGICAL SCIENTISTS	2352	2674	1562	1048	64
(3)MEDICAL SCIENTISTS	2353	16014	13338	2230	446
PSYCHOLOGISTS (TOTAL)	2360	2007	1558	303	146
SOCIAL SCIENTISTS (TOTAL)	2370	3985	3178	582	225
(1)ECONOMISTS	2371	891	720	122	49
(2)SOCIOLOGISTS	2372	1068	901	121	46
(3)POLITICAL SCIENTISTS	2373	830	637	101	92
(4)OTHER SOCIAL SCIENTISTS	2374	1196	920	238	38
TOTAL HEADCOUNT	2300	32396	24875	6315	1206
FTE DISTRIBUTION, BY FUNCTION	2390	13023	9102	3290	631

ITEM 4. PART-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2410	8562	5914	2346	302
ED.D., J.D., ETC.	2420	368	302	32	34
M.D., D.D.S., D.V.M., ETC.	2430	14191	12240	1556	395
MASTER'S	2440	6133	4686	1152	295
BACHELOR'S OR THE EQUIVALENT	2450	3142	1733	1229	180
TOTAL	2400	32396	24875	6315	1206

TABLE B-56.
CONTINUED

ITEM 5. SCIENTISTS AND ENGINEERS WITH DOCTORATE DEGREES, BY FIELD IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	FULL-TIME	PART-TIME
ENGINEERS	2510	13353	12085	1268
PHYSICAL SCIENTISTS	2520	13983	13102	881
ENVIRONMENTAL SCIENTISTS	2530	3797	3591	206
MATHEMATICAL SCIENTISTS	2540	8445	7856	589
LIFE SCIENTISTS	2550	35255	32176	3079
PSYCHOLOGISTS	2560	7237	6155	1082
SOCIAL SCIENTISTS	2570	17062	15605	1457
TOTAL	2500	99132	90570	8562

ITEM 6. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD IN WHICH PRIMARILY EMPLOYED, AND SEX, JANUARY 1976

		TOTAL	MEN	WOMEN
ENGINEERS (TOTAL)	2610	16864	16492	372
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2611	774	755	19
(2)CHEMICAL ENGINEERS	2612	1421	1388	33
(3)CIVIL ENGINEERS	2613	2870	2805	65
(4)ELECTRICAL ENGINEERS	2614	3600	3531	69
(5)MECHANICAL ENGINEERS	2615	2985	2948	37
(6)OTHER ENGINEERS	2616	5214	5065	149
PHYSICAL SCIENTISTS (TOTAL)	2620	15498	14554	944
(1)CHEMISTS	2621	7449	6831	618
(2)PHYSICISTS	2622	6580	6388	192
(3)OTHER PHYSICAL SCIENTISTS	2623	1469	1335	134
ENVIRONMENTAL SCIENTISTS (TOTAL)	2630	4764	4521	243
(1)EARTH SCIENTISTS	2631	3328	3174	154
(2)ATMOSPHERIC SCIENTISTS	2632	485	456	29
(3)OCEANOGRAPHERS	2633	951	891	60
MATHEMATICAL SCIENTISTS (TOTAL)	2640	10393	9343	1050
(1)MATHEMATICIANS	2641	8098	7324	774
(2)COMPUTER SCIENTISTS	2642	2295	2019	276
LIFE SCIENTISTS (TOTAL)	2650	77948	62930	15018
(1)AGRICULTURAL SCIENTISTS	2651	11433	10091	1342
(2)BIOLOGICAL SCIENTISTS	2652	23783	19073	4710
(3)MEDICAL SCIENTISTS	2653	42732	33766	8966
PSYCHOLOGISTS (TOTAL)	2660	7479	5862	1617
SOCIAL SCIENTISTS (TOTAL)	2670	21262	17566	3696
(1)ECONOMISTS	2671	5969	5426	543
(2)SOCIOLOGISTS	2672	5153	3874	1279
(3)POLITICAL SCIENTISTS	2673	4272	3803	469
(4)OTHER SOCIAL SCIENTISTS	2674	5868	4463	1405
TOTAL HEADCOUNT	2600	154208	131268	22940

ITEM 7. TECHNICIANS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	R&D	OTHER ACTIVITIES
ENGINEERING TECHNICIANS	2810	4537	2864	1673
PHYSICAL SCIENCE TECHNICIANS	2820	4194	2902	1292
ENVIRONMENTAL SCIENCE TECHNICIANS	2830	1627	1336	291
MATHEMATICS TECHNICIANS	2840	3023	1249	1774
LIFE SCIENCE TECHNICIANS	2850	35084	25318	9766
PSYCHOLOGY TECHNICIANS	2860	1621	1400	221
SOCIAL SCIENCE TECHNICIANS	2870	967	536	431
TOTAL	2800	51053	35605	15448

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-57. SUMMARY DATA FOR INSTITUTIONS AWARDING MASTER'S DEGREES IN THE SCIENCES OR ENGINEERING: JANUARY 1976

ITEM 1. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2110	1576	1492	31	53
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2111	32	32	0	0
(2)CHEMICAL ENGINEERS	2112	84	80	2	2
(3)CIVIL ENGINEERS	2113	317	300	7	10
(4)ELECTRICAL ENGINEERS	2114	438	410	9	19
(5)MECHANICAL ENGINEERS	2115	359	338	8	13
(6)OTHER ENGINEERS	2116	346	332	5	9
PHYSICAL SCIENTISTS (TOTAL)	2120	3876	3718	101	57
(1)CHEMISTS	2121	2185	2082	67	36
(2)PHYSICISTS	2122	1500	1463	26	11
(3)OTHER PHYSICAL SCIENTISTS	2123	191	173	8	10
ENVIRONMENTAL SCIENTISTS (TOTAL)	2130	1178	1126	45	7
(1)EARTH SCIENTISTS	2131	1076	1038	31	7
(2)ATMOSPHERIC SCIENTISTS	2132	48	48	0	0
(3)OCEANOGRAPHERS	2133	54	40	14	0
MATHEMATICAL SCIENTISTS (TOTAL)	2140	3967	3841	33	93
(1)MATHEMATICIANS	2141	3389	3356	15	18
(2)COMPUTER SCIENTISTS	2142	578	485	18	75
LIFE SCIENTISTS (TOTAL)	2150	4471	4252	157	62
(1)AGRICULTURAL SCIENTISTS	2151	570	490	59	21
(2)BIOLOGICAL SCIENTISTS	2152	3491	3385	80	26
(3)MEDICAL SCIENTISTS	2153	410	377	18	15
PSYCHOLOGISTS (TOTAL)	2160	3634	3366	39	229
SOCIAL SCIENTISTS (TOTAL)	2170	7674	7484	91	99
(1)ECONOMISTS	2171	1737	1703	16	18
(2)SOCIOLOGISTS	2172	2326	2283	24	19
(3)POLITICAL SCIENTISTS	2173	1790	1757	12	21
(4)OTHER SOCIAL SCIENTISTS	2174	1821	1741	39	41
TOTAL HEADCOUNT	2100	26376	25279	497	600
FTE DISTRIBUTION, BY FUNCTION	2190	26376	24835	820	721

ITEM 2. FULL-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2210	17914	17263	321	330
ED.D., J.D., ETC.	2220	880	821	24	35
M.D., D.D.S., D.V.M., ETC.	2230	111	107	4	0
MASTER'S	2240	6803	6530	101	172
BACHELOR'S OR THE EQUIVALENT	2250	668	558	47	63
TOTAL	2200	26376	25279	497	600

ITEM 3. PART-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2310	551	542	9	0
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2311	17	17	0	0
(2)CHEMICAL ENGINEERS	2312	12	11	1	0
(3)CIVIL ENGINEERS	2313	126	125	1	0
(4)ELECTRICAL ENGINEERS	2314	139	137	2	0
(5)MECHANICAL ENGINEERS	2315	109	107	2	0
(6)OTHER ENGINEERS	2316	148	145	3	0
PHYSICAL SCIENTISTS (TOTAL)	2320	686	670	14	2
(1)CHEMISTS	2321	372	364	6	2
(2)PHYSICISTS	2322	237	234	3	0
(3)OTHER PHYSICAL SCIENTISTS	2323	77	72	5	0
ENVIRONMENTAL SCIENTISTS (TOTAL)	2330	219	193	26	0
(1)EARTH SCIENTISTS	2331	187	176	11	0
(2)ATMOSPHERIC SCIENTISTS	2332	7	7	0	0
(3)OCEANOGRAPHERS	2333	25	10	15	0
MATHEMATICAL SCIENTISTS (TOTAL)	2340	898	896	0	2
(1)MATHEMATICIANS	2341	705	704	0	1
(2)COMPUTER SCIENTISTS	2342	193	192	0	1
LIFE SCIENTISTS (TOTAL)	2350	871	847	21	3
(1)AGRICULTURAL SCIENTISTS	2351	66	66	0	0
(2)BIOLOGICAL SCIENTISTS	2352	608	592	15	1
(3)MEDICAL SCIENTISTS	2353	197	189	6	2
PSYCHOLOGISTS (TOTAL)	2360	1128	1089	3	36
SOCIAL SCIENTISTS (TOTAL)	2370	2421	2414	2	5
(1)ECONOMISTS	2371	686	683	1	2
(2)SOCIOLOGISTS	2372	817	817	0	0
(3)POLITICAL SCIENTISTS	2373	381	379	0	2
(4)OTHER SOCIAL SCIENTISTS	2374	537	535	1	1
TOTAL HEADCOUNT	2300	6774	6651	75	48
FTE DISTRIBUTION, BY FUNCTION	2390	2412	2355	35	22

ITEM 4. PART-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2410	2078	2037	16	25
ED.D., J.D., ETC.	2420	207	207	0	0
M.D., D.D.S., D.V.M., ETC.	2430	109	105	2	2
MASTER'S	2440	3293	3267	8	18
BACHELOR'S OR THE EQUIVALENT	2450	1087	1035	49	3
TOTAL	2400	6774	6651	75	48

TABLE B-57.
CONTINUED

ITEM 5. SCIENTISTS AND ENGINEERS WITH DOCTORATE DEGREES, BY FIELD IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	FULL-TIME	PART-TIME
ENGINEERS	2510	1010	832	178
PHYSICAL SCIENTISTS	2520	3425	3171	254
ENVIRONMENTAL SCIENTISTS	2530	903	841	62
MATHEMATICAL SCIENTISTS	2540	2487	2279	208
LIFE SCIENTISTS	2550	3448	3227	221
PSYCHOLOGISTS	2560	3276	2734	542
SOCIAL SCIENTISTS	2570	5443	4830	613
TOTAL	2500	19992	17914	2078

ITEM 6. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD IN WHICH PRIMARILY EMPLOYED, AND SEX, JANUARY 1976

		TOTAL	MEN	WOMEN
ENGINEERS (TOTAL)	2610	1576	1565	11
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2611	32	32	0
(2)CHEMICAL ENGINEERS	2612	84	84	0
(3)CIVIL ENGINEERS	2613	317	313	4
(4)ELECTRICAL ENGINEERS	2614	438	438	0
(5)MECHANICAL ENGINEERS	2615	359	357	2
(6)OTHER ENGINEERS	2616	346	341	5
PHYSICAL SCIENTISTS (TOTAL)	2620	3876	3585	291
(1)CHEMISTS	2621	2185	1972	213
(2)PHYSICISTS	2622	1500	1443	57
(3)OTHER PHYSICAL SCIENTISTS	2623	191	170	21
ENVIRONMENTAL SCIENTISTS (TOTAL)	2630	1178	1116	62
(1)EARTH SCIENTISTS	2631	1076	1019	57
(2)ATMOSPHERIC SCIENTISTS	2632	48	45	3
(3)OCEANOGRAPHERS	2633	54	52	2
MATHEMATICAL SCIENTISTS (TOTAL)	2640	3967	3481	486
(1)MATHEMATICIANS	2641	3389	2945	444
(2)COMPUTER SCIENTISTS	2642	578	536	42
LIFE SCIENTISTS (TOTAL)	2650	4471	3730	741
(1)AGRICULTURAL SCIENTISTS	2651	570	522	48
(2)BIOLOGICAL SCIENTISTS	2652	3491	2956	535
(3)MEDICAL SCIENTISTS	2653	410	252	158
PSYCHOLOGISTS (TOTAL)	2660	3634	2840	794
SOCIAL SCIENTISTS (TOTAL)	2670	7674	6357	1317
(1)ECONOMISTS	2671	1737	1577	160
(2)SOCIOLOGISTS	2672	2326	1765	561
(3)POLITICAL SCIENTISTS	2673	1790	1583	207
(4)OTHER SOCIAL SCIENTISTS	2674	1821	1432	389
TOTAL HEADCOUNT	2600	26376	22674	3702

ITEM 7. TECHNICIANS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	R&D	OTHER ACTIVITIES
ENGINEERING TECHNICIANS	2810	326	78	248
PHYSICAL SCIENCE TECHNICIANS	2820	438	112	326
ENVIRONMENTAL SCIENCE TECHNICIANS	2830	89	28	61
MATHEMATICS TECHNICIANS	2840	369	39	330
LIFE SCIENCE TECHNICIANS	2850	544	186	358
PSYCHOLOGY TECHNICIANS	2860	95	24	71
SOCIAL SCIENCE TECHNICIANS	2870	48	13	35
TOTAL	2800	1909	480	1429

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-58. SUMMARY DATA FOR INSTITUTIONS AWARDING BACHELOR'S DEGREES IN THE SCIENCES OR ENGINEERING: JANUARY 1976

ITEM 1. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2110	1275	1210	18	47
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2111	64	62	2	0
(2)CHEMICAL ENGINEERS	2112	38	38	0	0
(3)CIVIL ENGINEERS	2113	204	190	0	14
(4)ELECTRICAL ENGINEERS	2114	354	331	8	15
(5)MECHANICAL ENGINEERS	2115	270	255	3	12
(6)OTHER ENGINEERS	2116	345	334	5	6
PHYSICAL SCIENTISTS (TOTAL)	2120	4102	3974	60	68
(1)CHEMISTS	2121	2457	2370	40	47
(2)PHYSICISTS	2122	1458	1419	20	19
(3)OTHER PHYSICAL SCIENTISTS	2123	187	185	0	2
ENVIRONMENTAL SCIENTISTS (TOTAL)	2130	609	596	11	2
(1)EARTH SCIENTISTS	2131	551	544	6	1
(2)ATMOSPHERIC SCIENTISTS	2132	22	21	0	1
(3)OCEANOGRAPHERS	2133	36	31	5	0
MATHEMATICAL SCIENTISTS (TOTAL)	2140	3618	3491	39	88
(1)MATHEMATICIANS	2141	3187	3148	16	23
(2)COMPUTER SCIENTISTS	2142	431	343	23	65
LIFE SCIENTISTS (TOTAL)	2150	4100	3940	89	71
(1)AGRICULTURAL SCIENTISTS	2151	174	148	18	8
(2)BIOLOGICAL SCIENTISTS	2152	3502	3396	63	43
(3)MEDICAL SCIENTISTS	2153	424	396	8	20
PSYCHOLOGISTS (TOTAL)	2160	2793	2567	23	203
SOCIAL SCIENTISTS (TOTAL)	2170	6534	6378	71	85
(1)ECONOMISTS	2171	1688	1652	16	20
(2)SOCIOLOGISTS	2172	2197	2145	31	21
(3)POLITICAL SCIENTISTS	2173	1671	1637	11	23
(4)OTHER SOCIAL SCIENTISTS	2174	978	944	13	21
TOTAL HEADCOUNT	2100	23031	22156	311	564
FTE DISTRIBUTION, BY FUNCTION	2190	23031	22062	386	583

ITEM 2. FULL-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2210	13757	13353	187	217
ED.D., J.D., ETC.	2220	661	629	5	27
M.D., D.D.S., D.V.M., ETC.	2230	373	347	3	23
MASTER'S	2240	7399	7112	79	208
BACHELOR'S OR THE EQUIVALENT	2250	841	715	37	89
TOTAL	2200	23031	22156	311	564

ITEM 3. PART-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2310	185	181	1	3
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2311	6	6	0	0
(2)CHEMICAL ENGINEERS	2312	2	2	0	0
(3)CIVIL ENGINEERS	2313	36	35	0	1
(4)ELECTRICAL ENGINEERS	2314	54	52	1	1
(5)MECHANICAL ENGINEERS	2315	44	43	0	1
(6)OTHER ENGINEERS	2316	43	43	0	0
PHYSICAL SCIENTISTS (TOTAL)	2320	545	519	18	8
(1)CHEMISTS	2321	331	319	7	5
(2)PHYSICISTS	2322	173	161	10	2
(3)OTHER PHYSICAL SCIENTISTS	2323	41	39	1	1
ENVIRONMENTAL SCIENTISTS (TOTAL)	2330	129	123	4	2
(1)EARTH SCIENTISTS	2331	117	111	4	2
(2)ATMOSPHERIC SCIENTISTS	2332	5	5	0	0
(3)OCEANOGRAPHERS	2333	7	7	0	0
MATHEMATICAL SCIENTISTS (TOTAL)	2340	814	803	7	4
(1)MATHEMATICIANS	2341	646	637	7	2
(2)COMPUTER SCIENTISTS	2342	168	166	0	2
LIFE SCIENTISTS (TOTAL)	2350	675	643	11	21
(1)AGRICULTURAL SCIENTISTS	2351	8	7	1	0
(2)BIOLOGICAL SCIENTISTS	2352	497	485	8	4
(3)MEDICAL SCIENTISTS	2353	170	151	2	17
PSYCHOLOGISTS (TOTAL)	2360	970	939	1	30
SOCIAL SCIENTISTS (TOTAL)	2370	1819	1804	6	9
(1)ECONOMISTS	2371	497	495	1	1
(2)SOCIOLOGISTS	2372	712	703	4	5
(3)POLITICAL SCIENTISTS	2373	386	382	1	3
(4)OTHER SOCIAL SCIENTISTS	2374	224	224	0	0
TOTAL HEADCOUNT	2300	5137	5012	48	77
FTE DISTRIBUTION, BY FUNCTION	2390	2334	2276	20	38

ITEM 4. PART-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2410	1462	1415	22	25
ED.D., J.D., ETC.	2420	175	167	0	8
M.D., D.D.S., D.V.M., ETC.	2430	189	174	3	12
MASTER'S	2440	2763	2732	10	21
BACHELOR'S OR THE EQUIVALENT	2450	548	524	13	11
TOTAL	2400	5137	5012	48	77

TABLE B-58.
CONTINUED

ITEM 5. SCIENTISTS AND ENGINEERS WITH DOCTORATE DEGREES, BY FIELD IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	FULL-TIME	PART-TIME
ENGINEERS	2510	373	355	18
PHYSICAL SCIENTISTS	2520	3294	3053	241
ENVIRONMENTAL SCIENTISTS	2530	390	361	29
MATHEMATICAL SCIENTISTS	2540	1843	1695	148
LIFE SCIENTISTS	2550	2977	2774	203
PSYCHOLOGISTS	2560	2363	1957	406
SOCIAL SCIENTISTS	2570	3979	3562	417
TOTAL	2500	15219	13757	1462

ITEM 6. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD IN WHICH PRIMARILY EMPLOYED, AND SEX, JANUARY 1976

		TOTAL	MEN	WOMEN
ENGINEERS (TOTAL)	2610	1275	1262	13
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2611	64	61	3
(2)CHEMICAL ENGINEERS	2612	38	38	0
(3)CIVIL ENGINEERS	2613	204	201	3
(4)ELECTRICAL ENGINEERS	2614	354	354	0
(5)MECHANICAL ENGINEERS	2615	270	270	0
(6)OTHER ENGINEERS	2616	345	338	7
PHYSICAL SCIENTISTS (TOTAL)	2620	4102	3631	471
(1)CHEMISTS	2621	2457	2081	376
(2)PHYSICISTS	2622	1458	1382	76
(3)OTHER PHYSICAL SCIENTISTS	2623	187	168	19
ENVIRONMENTAL SCIENTISTS (TOTAL)	2630	609	577	32
(1)EARTH SCIENTISTS	2631	551	521	30
(2)ATMOSPHERIC SCIENTISTS	2632	22	22	0
(3)OCEANOGRAPHERS	2633	36	34	2
MATHEMATICAL SCIENTISTS (TOTAL)	2640	3618	3050	568
(1)MATHEMATICIANS	2641	3187	2660	527
(2)COMPUTER SCIENTISTS	2642	431	390	41
LIFE SCIENTISTS (TOTAL)	2650	4100	3169	931
(1)AGRICULTURAL SCIENTISTS	2651	174	170	4
(2)BIOLOGICAL SCIENTISTS	2652	3502	2742	760
(3)MEDICAL SCIENTISTS	2653	424	257	167
PSYCHOLOGISTS (TOTAL)	2660	2793	2154	639
SOCIAL SCIENTISTS (TOTAL)	2670	6534	5390	1144
(1)ECONOMISTS	2671	1688	1558	130
(2)SOCIOLOGISTS	2672	2197	1603	594
(3)POLITICAL SCIENTISTS	2673	1671	1476	195
(4)OTHER SOCIAL SCIENTISTS	2674	978	753	225
TOTAL HEADCOUNT	2600	23031	19233	3798

ITEM 7. TECHNICIANS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	R&D	OTHER ACTIVITIES
ENGINEERING TECHNICIANS	2810	264	5	259
PHYSICAL SCIENCE TECHNICIANS	2820	284	34	250
ENVIRONMENTAL SCIENCE TECHNICIANS	2830	36	9	27
MATHEMATICS TECHNICIANS	2840	285	83	202
LIFE SCIENCE TECHNICIANS	2850	340	113	227
PSYCHOLOGY TECHNICIANS	2860	46	7	39
SOCIAL SCIENCE TECHNICIANS	2870	52	15	37
TOTAL	2800	1307	266	1041

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-59. SUMMARY DATA FOR TWO-YEAR INSTITUTIONS OF HIGHER EDUCATION: JANUARY 1976

ITEM 1. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2110	3049	2982	8	59
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2111	93	92	0	1
(2)CHEMICAL ENGINEERS	2112	77	72	0	5
(3)CIVIL ENGINEERS	2113	603	589	2	12
(4)ELECTRICAL ENGINEERS	2114	994	974	2	18
(5)MECHANICAL ENGINEERS	2115	728	710	2	16
(6)OTHER ENGINEERS	2116	554	545	2	7
PHYSICAL SCIENTISTS (TOTAL)	2120	3667	3620	5	42
(1)CHEMISTS	2121	2060	2037	1	22
(2)PHYSICISTS	2122	1313	1301	4	8
(3)OTHER PHYSICAL SCIENTISTS	2123	294	282	0	12
ENVIRONMENTAL SCIENTISTS (TOTAL)	2130	689	683	0	6
(1)EARTH SCIENTISTS	2131	620	616	0	4
(2)ATMOSPHERIC SCIENTISTS	2132	19	18	0	1
(3)OCEANOGRAPHERS	2133	50	49	0	1
MATHEMATICAL SCIENTISTS (TOTAL)	2140	5022	4909	21	92
(1)MATHEMATICIANS	2141	4208	4166	3	39
(2)COMPUTER SCIENTISTS	2142	814	743	18	53
LIFE SCIENTISTS (TOTAL)	2150	5984	5903	9	72
(1)AGRICULTURAL SCIENTISTS	2151	785	773	0	12
(2)BIOLOGICAL SCIENTISTS	2152	3896	3858	1	37
(3)MEDICAL SCIENTISTS	2153	1303	1272	8	23
PSYCHOLOGISTS (TOTAL)	2160	2774	2331	9	434
SOCIAL SCIENTISTS (TOTAL)	2170	5239	5120	32	87
(1)ECONOMISTS	2171	961	946	2	13
(2)SOCIOLOGISTS	2172	1666	1637	5	24
(3)POLITICAL SCIENTISTS	2173	1256	1236	3	17
(4)OTHER SOCIAL SCIENTISTS	2174	1356	1301	22	33
TOTAL HEADCOUNT	2100	26424	25548	84	792
FTE DISTRIBUTION, BY FUNCTION	2190	26424	25517	79	828

ITEM 2. FULL-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2210	3670	3530	15	125
ED.D., J.D., ETC.	2220	622	571	4	47
M.D., D.D.S., D.V.M., ETC.	2230	378	371	5	2
MASTER'S	2240	18900	18328	44	528
BACHELOR'S OR THE EQUIVALENT	2250	2854	2748	16	90
TOTAL	2200	26424	25548	84	792

ITEM 3. PART-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2310	1814	1812	1	1
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2311	52	52	0	0
(2)CHEMICAL ENGINEERS	2312	32	32	0	0
(3)CIVIL ENGINEERS	2313	300	300	0	0
(4)ELECTRICAL ENGINEERS	2314	632	632	0	0
(5)MECHANICAL ENGINEERS	2315	331	331	0	0
(6)OTHER ENGINEERS	2316	467	465	1	1
PHYSICAL SCIENTISTS (TOTAL)	2320	1282	1280	2	0
(1)CHEMISTS	2321	708	706	2	0
(2)PHYSICISTS	2322	371	371	0	0
(3)OTHER PHYSICAL SCIENTISTS	2323	203	203	0	0
ENVIRONMENTAL SCIENTISTS (TOTAL)	2330	314	314	0	0
(1)EARTH SCIENTISTS	2331	255	255	0	0
(2)ATMOSPHERIC SCIENTISTS	2332	39	39	0	0
(3)OCEANOGRAPHERS	2333	20	20	0	0
MATHEMATICAL SCIENTISTS (TOTAL)	2340	3235	3231	2	2
(1)MATHEMATICIANS	2341	2514	2511	2	1
(2)COMPUTER SCIENTISTS	2342	721	720	0	1
LIFE SCIENTISTS (TOTAL)	2350	1990	1986	0	4
(1)AGRICULTURAL SCIENTISTS	2351	352	352	0	0
(2)BIOLOGICAL SCIENTISTS	2352	1155	1153	0	2
(3)MEDICAL SCIENTISTS	2353	483	481	0	2
PSYCHOLOGISTS (TOTAL)	2360	1930	1883	1	46
SOCIAL SCIENTISTS (TOTAL)	2370	3365	3363	1	1
(1)ECONOMISTS	2371	667	667	0	0
(2)SOCIOLOGISTS	2372	1151	1149	1	1
(3)POLITICAL SCIENTISTS	2373	660	660	0	0
(4)OTHER SOCIAL SCIENTISTS	2374	887	887	0	0
TOTAL HEADCOUNT	2300	13930	13869	7	54
FTE DISTRIBUTION, BY FUNCTION	2390	4931	4893	4	34

ITEM 4. PART-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2410	1517	1498	2	17
ED.D., J.D., ETC.	2420	222	222	0	0
M.D., D.D.S., D.V.M., ETC.	2430	169	167	0	2
MASTER'S	2440	9211	9177	3	31
BACHELOR'S OR THE EQUIVALENT	2450	2811	2805	2	4
TOTAL	2400	13930	13869	7	54

TABLE B-59.
CONTINUED

ITEM 5. SCIENTISTS AND ENGINEERS WITH DOCTORATE DEGREES, BY FIELD IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	FULL-TIME	PART-TIME
ENGINEERS	2510	230	161	69
PHYSICAL SCIENTISTS	2520	1233	918	315
ENVIRONMENTAL SCIENTISTS	2530	129	97	32
MATHEMATICAL SCIENTISTS	2540	569	367	202
LIFE SCIENTISTS	2550	1061	816	245
PSYCHOLOGISTS	2560	919	544	375
SOCIAL SCIENTISTS	2570	1046	767	279
TOTAL	2500	5187	3670	1517

ITEM 6. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD IN WHICH PRIMARILY EMPLOYED, AND SEX, JANUARY 1976

		TOTAL	MEN	WOMEN
ENGINEERS (TOTAL)	2610	3049	2998	51
(1) AERONAUTICAL & ASTRONAUTICAL ENGRS	2611	93	87	6
(2) CHEMICAL ENGINEERS	2612	77	73	4
(3) CIVIL ENGINEERS	2613	603	592	11
(4) ELECTRICAL ENGINEERS	2614	994	989	5
(5) MECHANICAL ENGINEERS	2615	728	722	6
(6) OTHER ENGINEERS	2616	554	535	19
PHYSICAL SCIENTISTS (TOTAL)	2620	3667	3256	411
(1) CHEMISTS	2621	2060	1750	310
(2) PHYSICISTS	2622	1313	1236	77
(3) OTHER PHYSICAL SCIENTISTS	2623	294	270	24
ENVIRONMENTAL SCIENTISTS (TOTAL)	2630	689	649	40
(1) EARTH SCIENTISTS	2631	620	584	36
(2) ATMOSPHERIC SCIENTISTS	2632	19	18	1
(3) OCEANOGRAPHERS	2633	50	47	3
MATHEMATICAL SCIENTISTS (TOTAL)	2640	5022	4050	972
(1) MATHEMATICIANS	2641	4213	3360	853
(2) COMPUTER SCIENTISTS	2642	809	690	119
LIFE SCIENTISTS (TOTAL)	2650	5984	4014	1970
(1) AGRICULTURAL SCIENTISTS	2651	785	762	23
(2) BIOLOGICAL SCIENTISTS	2652	3896	2931	965
(3) MEDICAL SCIENTISTS	2653	1303	321	982
PSYCHOLOGISTS (TOTAL)	2660	2774	1870	904
SOCIAL SCIENTISTS (TOTAL)	2670	5239	4192	1047
(1) ECONOMISTS	2671	961	848	113
(2) SOCIOLOGISTS	2672	1666	1196	470
(3) POLITICAL SCIENTISTS	2673	1256	1106	150
(4) OTHER SOCIAL SCIENTISTS	2674	1356	1042	314
TOTAL HEADCOUNT	2600	26424	21029	5395

ITEM 7. TECHNICIANS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	R&D	OTHER ACTIVITIES
ENGINEERING TECHNICIANS	2810	573	35	538
PHYSICAL SCIENCE TECHNICIANS	2820	301	13	288
ENVIRONMENTAL SCIENCE TECHNICIANS	2830	28	1	27
MATHEMATICS TECHNICIANS	2840	581	43	538
LIFE SCIENCE TECHNICIANS	2850	592	49	543
PSYCHOLOGY TECHNICIANS	2860	35	2	33
SOCIAL SCIENCE TECHNICIANS	2870	24	4	20
TOTAL	2800	2134	147	1987

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE B-60. SUMMARY DATA FOR 21 FFRDC'S: JANUARY 1976

ITEM 1. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2110	5948	0	5846	102
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2111	207	0	206	1
(2)CHEMICAL ENGINEERS	2112	291	0	287	4
(3)CIVIL ENGINEERS	2113	166	0	112	54
(4)ELECTRICAL ENGINEERS	2114	2689	0	2678	11
(5)MECHANICAL ENGINEERS	2115	1416	0	1405	11
(6)OTHER ENGINEERS	2116	1179	0	1158	21
PHYSICAL SCIENTISTS (TOTAL)	2120	4691	0	4677	14
(1)CHEMISTS	2121	1177	0	1171	6
(2)PHYSICISTS	2122	2961	0	2956	5
(3)OTHER PHYSICAL SCIENTISTS	2123	553	0	550	3
ENVIRONMENTAL SCIENTISTS (TOTAL)	2130	343	0	343	0
(1)EARTH SCIENTISTS	2131	159	0	159	0
(2)ATMOSPHERIC SCIENTISTS	2132	178	0	178	0
(3)OCEANOGRAPHERS	2133	6	0	6	0
MATHEMATICAL SCIENTISTS (TOTAL)	2140	1315	0	1307	8
(1)MATHEMATICIANS	2141	645	0	639	6
(2)COMPUTER SCIENTISTS	2142	670	0	668	2
LIFE SCIENTISTS (TOTAL)	2150	605	0	596	9
(1)AGRICULTURAL SCIENTISTS	2151	2	0	1	1
(2)BIOLOGICAL SCIENTISTS	2152	510	0	502	8
(3)MEDICAL SCIENTISTS	2153	93	0	93	0
PSYCHOLOGISTS (TOTAL)	2160	9	0	8	1
SOCIAL SCIENTISTS (TOTAL)	2170	96	0	91	5
(1)ECONOMISTS	2171	40	0	40	0
(2)SOCIOLOGISTS	2172	4	0	4	0
(3)POLITICAL SCIENTISTS	2173	15	0	12	3
(4)OTHER SOCIAL SCIENTISTS	2174	37	0	35	2
TOTAL HEADCOUNT	2100	13007	0	12868	139
FTE DISTRIBUTION, BY FUNCTION	2190	13007	3	12865	139

ITEM 2. FULL-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2210	4925	0	4913	12
ED.D., J.D., ETC.	2220	2	0	1	1
M.D., D.D.S., D.V.M., ETC.	2230	41	0	41	0
MASTER'S	2240	3264	0	3240	24
BACHELOR'S OR THE EQUIVALENT	2250	4775	0	4673	102
TOTAL	2200	13007	0	12868	139

ITEM 3. PART-TIME SCIENTISTS AND ENGINEERS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED; AND TOTAL FULL-TIME EQUIVALENTS (FTE) BY FUNCTION, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
ENGINEERS (TOTAL)	2310	37	0	37	0
(1)AERONAUTICAL & ASTRONAUTICAL ENGRS	2311	0	0	0	0
(2)CHEMICAL ENGINEERS	2312	4	0	4	0
(3)CIVIL ENGINEERS	2313	2	0	2	0
(4)ELECTRICAL ENGINEERS	2314	15	0	15	0
(5)MECHANICAL ENGINEERS	2315	8	0	8	0
(6)OTHER ENGINEERS	2316	8	0	8	0
PHYSICAL SCIENTISTS (TOTAL)	2320	144	0	143	1
(1)CHEMISTS	2321	38	0	38	0
(2)PHYSICISTS	2322	76	0	76	0
(3)OTHER PHYSICAL SCIENTISTS	2323	30	0	29	1
ENVIRONMENTAL SCIENTISTS (TOTAL)	2330	7	0	7	0
(1)EARTH SCIENTISTS	2331	2	0	2	0
(2)ATMOSPHERIC SCIENTISTS	2332	5	0	5	0
(3)OCEANOGRAPHERS	2333	0	0	0	0
MATHEMATICAL SCIENTISTS (TOTAL)	2340	42	0	42	0
(1)MATHEMATICIANS	2341	21	0	21	0
(2)COMPUTER SCIENTISTS	2342	21	0	21	0
LIFE SCIENTISTS (TOTAL)	2350	38	0	38	0
(1)AGRICULTURAL SCIENTISTS	2351	4	0	4	0
(2)BIOLOGICAL SCIENTISTS	2352	27	0	27	0
(3)MEDICAL SCIENTISTS	2353	7	0	7	0
PSYCHOLOGISTS (TOTAL)	2360	0	0	0	0
SOCIAL SCIENTISTS (TOTAL)	2370	6	0	5	1
(1)ECONOMISTS	2371	5	0	4	1
(2)SOCIOLOGISTS	2372	0	0	0	0
(3)POLITICAL SCIENTISTS	2373	0	0	0	0
(4)OTHER SOCIAL SCIENTISTS	2374	1	0	1	0
TOTAL HEADCOUNT	2300	274	0	272	2
FTE DISTRIBUTION, BY FUNCTION	2390	139	0	137	2

ITEM 4. PART-TIME SCIENTISTS AND ENGINEERS, BY HIGHEST EARNED DEGREE AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	TEACHING	R&D	OTHER
DOCTORATE HOLDERS, BY TYPE					
PH.D. OR SC.D.	2410	75	0	74	1
ED.D., J.D., ETC.	2420	0	0	0	0
M.D., D.D.S., D.V.M., ETC.	2430	4	0	4	0
MASTER'S	2440	89	0	88	1
BACHELOR'S OR THE EQUIVALENT	2450	106	0	106	0
TOTAL	2400	274	0	272	2

TABLE B-60.
CONTINUED

ITEM 5. SCIENTISTS AND ENGINEERS WITH DOCTORATE DEGREES, BY FIELD IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	FULL-TIME	PART-TIME
ENGINEERS	2510	1166	1161	5
PHYSICAL SCIENTISTS	2520	3081	3026	55
ENVIRONMENTAL SCIENTISTS	2530	208	205	3
MATHEMATICAL SCIENTISTS	2540	217	213	4
LIFE SCIENTISTS	2550	292	284	8
PSYCHOLOGISTS	2560	6	6	0
SOCIAL SCIENTISTS	2570	30	30	0
TOTAL	2500	5000	4925	75

ITEM 6. FULL-TIME SCIENTISTS AND ENGINEERS, BY FIELD IN WHICH PRIMARILY EMPLOYED, AND SEX, JANUARY 1976

		TOTAL	MEN	WOMEN
ENGINEERS (TOTAL)	2610	5948	5899	49
(1) AERONAUTICAL & ASTRONAUTICAL ENGRS	2611	207	206	1
(2) CHEMICAL ENGINEERS	2612	291	286	5
(3) CIVIL ENGINEERS	2613	166	166	0
(4) ELECTRICAL ENGINEERS	2614	2689	2674	15
(5) MECHANICAL ENGINEERS	2615	1416	1406	10
(6) OTHER ENGINEERS	2616	1179	1161	18
PHYSICAL SCIENTISTS (TOTAL)	2620	4691	4509	182
(1) CHEMISTS	2621	1177	1103	74
(2) PHYSICISTS	2622	2961	2882	79
(3) OTHER PHYSICAL SCIENTISTS	2623	553	524	29
ENVIRONMENTAL SCIENTISTS (TOTAL)	2630	343	316	27
(1) EARTH SCIENTISTS	2631	159	144	15
(2) ATMOSPHERIC SCIENTISTS	2632	178	167	11
(3) OCEANOGRAPHERS	2633	6	5	1
MATHEMATICAL SCIENTISTS (TOTAL)	2640	1315	1100	215
(1) MATHEMATICIANS	2641	645	557	88
(2) COMPUTER SCIENTISTS	2642	670	543	127
LIFE SCIENTISTS (TOTAL)	2650	605	455	150
(1) AGRICULTURAL SCIENTISTS	2651	2	2	0
(2) BIOLOGICAL SCIENTISTS	2652	510	375	135
(3) MEDICAL SCIENTISTS	2653	93	78	15
PSYCHOLOGISTS (TOTAL)	2660	9	7	2
SOCIAL SCIENTISTS (TOTAL)	2670	96	84	12
(1) ECONOMISTS	2671	40	36	4
(2) SOCIOLOGISTS	2672	4	2	2
(3) POLITICAL SCIENTISTS	2673	15	14	1
(4) OTHER SOCIAL SCIENTISTS	2674	37	32	5
TOTAL HEADCOUNT	2600	13007	12370	637

ITEM 7. TECHNICIANS, BY FIELD AND FUNCTION IN WHICH PRIMARILY EMPLOYED, JANUARY 1976

		TOTAL	R&D	OTHER ACTIVITIES
ENGINEERING TECHNICIANS	2810	5470	5376	94
PHYSICAL SCIENCE TECHNICIANS	2820	1036	1025	11
ENVIRONMENTAL SCIENCE TECHNICIANS	2830	41	41	0
MATHEMATICS TECHNICIANS	2840	679	659	20
LIFE SCIENCE TECHNICIANS	2850	379	379	0
PSYCHOLOGY TECHNICIANS	2860	0	0	0
SOCIAL SCIENCE TECHNICIANS	2870	15	15	0
TOTAL	2800	7620	7495	125

SOURCE: NATIONAL SCIENCE FOUNDATION

Part 2
Reproductions

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NATIONAL SCIENCE FOUNDATION
Washington D.C. 20550

SURVEY OF SCIENTIFIC AND ENGINEERING PERSONNEL EMPLOYED AT UNIVERSITIES AND COLLEGES, JANUARY 1976

Organizations are requested to complete and return this form to:

NATIONAL SCIENCE FOUNDATION
1800 G Street, N.W.
Washington, D.C. 20550 Attn: UNISG

Name and address of institution:
(Please correct if name or address has changed)

This survey requests employment data as of January 1976. The completed 1976 questionnaire should be returned to NSF by March 31, 1976. Your cooperation in returning the survey questionnaire promptly is appreciated.

Please read the enclosed instructions before completing this form. If you have any questions about the completion of this form, **contact Robert Loycano (202-282-7790).** Where exact data are not available, use estimates. Please complete all items; estimates by college officials will be better than NSF estimates. Enter "0" as an item total (lines 2100; 2200, etc., are item totals) rather than leave the total blank.

All entries should be in whole numbers. Do not enter decimals or fractions.

Institutions of Higher Education

Include data for branches (including regional campuses) and all organizational units of your institution, such as a medical school or agricultural experiment station. Also include any hospital or clinic owned, operated, or controlled by the university, and integrated operationally with the clinical programs of your medical school. **Exclude** data for any Federally Funded Research and Development Centers (FFRDC's) administered by your institution. **(See below.)**

Please classify your institution according to (1) highest degree granted in the sciences or engineering and (2) primary administrative control.

Highest degree granted in the sciences or engineering during 1974-75	Check one	One science or engineering field in which highest degree was awarded	Check primary administrative control of your institution	
Ph.D.	☐	_____	Federal	☐
M.D., D.D.S., etc.	☐	_____	State	☐
Master's	☐	_____	Local	☐
Bachelor's or equivalent	☐	_____	Private	☐
Degree other than in science or engineering	☐	_____		
2-year program	☐	_____		

Federally Funded Research and Development Centers (FFRDC's)

Separate forms have been mailed directly to all FFRDC's administered by academic institutions. A list of these centers appears on page 2 of the Instructions and Definitions.

NSF FORM 724 (11-75)

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SECTION A. NUMBER OF SCIENTISTS AND ENGINEERS, JANUARY 1976

(Include postdoctorals; exclude graduate students)

Item 1. Full-time scientists and engineers, by field and function in which primarily employed (enter the totals of 1a thru 1g in 1h); and total full-time equivalents (FTE), by function, January 1976 (enter in 1i)

FIELD OF EMPLOYMENT		TOTAL (1)	TEACHING (2)	R&D (3)	Other activities (4)
a. Engineers (total)	2110				
(1) Aeronautical & astronautical engineers	2111				
(2) Chemical engineers	2112				
(3) Civil engineers	2113				
(4) Electrical engineers	2114				
(5) Mechanical engineers	2115				
(6) Other engineers	2116				
b. Physical scientists (total)	2120				
(1) Chemists	2121				
(2) Physicists	2122				
(3) Other physical scientists	2123				
c. Environmental scientists (total)	2130				
(1) Earth scientists	2131				
(2) Atmospheric scientists	2132				
(3) Oceanographers	2133				
d. Mathematical scientists (total)	2140				
(1) Mathematicians (exclude computer scientists)	2141				
(2) Computer scientists (exclude programmers)	2142				
e. Life scientists (total)	2150				
(1) Agricultural scientists	2151				
(2) Biological scientists	2152				
(3) Medical scientists (see instructions, p.1)	2153				
f. Psychologists (total)	2160				
g. Social scientists (total) (exclude historians)	2170				
(1) Economists	2171				
(2) Sociologists	2172				
(3) Political scientists	2173				
(4) Other social scientists	2174				
h. Total headcount (sum of a thru g) a/	2100				
i. FTE distribution, by function b/	2190				

Item 2. Full-time scientists and engineers, by highest earned degree and function in which primarily employed, January 1976

HIGHEST EARNED DEGREE		TOTAL (1)	TEACHING (2)	R&D (3)	Other activities (4)
Doctorate holders, by type					
a. Ph.D. or Sc.D.	2210				
b. Ed.D., J.D., etc.	2220				
c. M.D., D.D.S., D.V.M., etc.	2230				
d. Master's	2240				
e. Bachelor's or the equivalent	2250				
f. Total (sum of a thru e)	2200				

a/ Totals in line 1h should be the same as the corresponding totals in line 2f

b/ The total reported in item 1i, column 1, should, by definition, be the same as the total in item 1h, column 1. However, the FTE distribution by function (columns 2, 3, and 4) will not necessarily coincide with the functional distribution on a "primarily employed" basis in line 1h.

Item 3. Part-time scientists and engineers, by field and function in which primarily employed (enter the totals of 3a thru 3g in 3h); and total FTE's by function, January 1976 (enter in 3i) (exclude graduate students).

FIELD OF EMPLOYMENT		TOTAL (1)	TEACHING (2)	R&D (3)	Other activities (4)
a. Engineers (total)	2310				
(1) Aeronautical & astronautical engineers	2311				
(2) Chemical engineers	2312				
(3) Civil engineers	2313				
(4) Electrical engineers	2314				
(5) Mechanical engineers	2315				
(6) Other engineers	2316				
b. Physical scientists (total)	2320				
(1) Chemists	2321				
(2) Physicists	2322				
(3) Other physical scientists	2323				
c. Environmental scientists (total)	2330				
(1) Earth scientists	2331				
(2) Atmospheric scientists	2332				
(3) Oceanographers	2333				
d. Mathematical scientists (total)	2340				
(1) Mathematicians (exclude computer scientists)	2341				
(2) Computer scientists (exclude programmers)	2342				
e. Life scientists (total)	2350				
(1) Agricultural scientists	2351				
(2) Biological scientists	2352				
(3) Medical scientists (see instructions, p.1.)	2353				
f. Psychologists (total)	2360				
g. Social scientists (total) (exclude historians)	2370				
(1) Economists	2371				
(2) Sociologists	2372				
(3) Political scientists	2373				
(4) Other social scientists	2374				
h. Total headcount (sum of a thru g) a/	2300				
i. FTE distribution, by function b/	2390				

Item 4. Part-time scientists and engineers, by highest earned degree and function in which primarily employed, January 1976

HIGHEST EARNED DEGREE		TOTAL (1)	TEACHING (2)	R&D (3)	Other activities (4)
Doctorate holders, by type					
a. Ph.D. or Sc.D.	2410				
b. Ed.D., J.D., etc.	2420				
c. M.D., D.D.S., D.V.M., etc.	2430				
d. Master's	2440				
e. Bachelor's or the equivalent	2450				
f. Total (sum of a thru e)	2400				

a/ Totals in line 3h should be the same as the corresponding totals in line 4f

b/ The totals in item 3i converting figures on part-time employment into FTE's will necessarily differ from headcount totals in line 3h.

Item 5. Scientists and engineers with doctorate degrees, by field in which primarily employed, January 1976 (include only Ph.D's and Sc.D's reported in items 2a and 4a. Exclude M.D., D.D.S. degrees, etc.)

FIELD OF EMPLOYMENT		TOTAL (1)	FULL TIME (2)	PART TIME (3)
a. Engineers	2510			
b. Physical scientists	2520			
c. Environmental scientists	2530			
d. Mathematical scientists	2540			
e. Life scientists	2550			
f. Psychologists	2560			
g. Social scientists (exclude historians)	2570			
h. Total (sum of a thru g) a/	2500			

a/ 5h, column 2 must equal 2a, column 1. 5h, column 3 must equal 4a, column 1.

Item 6. Full-time scientists and engineers, by field in which primarily employed, and sex, January 1976. (Totals reported in item 6, column 1, should equal the totals reported in item 1, column 1.)

FIELD OF EMPLOYMENT		TOTAL (1)	MEN (2)	WOMEN (3)
a. Engineers (total)	2610			
(1) Aeronautical & astronautical	2611			
(2) Chemical engineers	2612			
(3) Civil engineers	2613			
(4 Electrical engineers	2614			
(5) Mechanical engineers	2615			
(6) Other engineers	2616			
b. Physical scientists (total)	2620			
(1) Chemists	2621			
(2) Physicists	2622			
(3) Other physical scientists	2623			
c. Environmental scientists (total)	2630			
(1) Earth scientists	2631			
(2) Atmospheric scientists	2632			
(3) Oceanographers	2633			
d. Mathematical scientists (total)	2640			
(1) Mathematicians (exclude computer scientists)	2641			
(2) Computer scientists (exclude programmers)	2642			
e. Life scientists (total)	2650			
(1) Agricultural scientists	2651			
(2) Biological scientists	2652			
(3) Medical scientists (see instructions, p. 1.)	2653			
f. Psychologists (total)	2660			
g. Social scientists (total) (exclude historians)	2670			
(1) Economists	2671			
(2) Sociologists	2672			
(3) Political scientists	2673			
(4) Other social scientists	2674			
h. Total headcount (sum of a thru g)	2600			

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SECTION B. NUMBER OF TECHNICIANS EMPLOYED IN THE SCIENCES AND ENGINEERING, January 1976

Item 7 Technicians, by field and function in which primarily employed, January 1975

FIELD OF EMPLOYMENT		TOTAL (1)	R&D (2)	Other activities (3)
a. Engineering technicians	2810			
b. Physical science technicians	2820			
c. Environmental science technicians	2830			
d. Mathematics technicians	2840			
e. Life science technicians	2850			
f. Psychology technicians	2860			
g. Social science technicians	2870			
h. Total (sum of a thru g)	2800			

CHECK LIST

1. Are all entries rounded to whole numbers? (Do not enter fractions or decimals.)
2. Do the data add to subtotals?
3. Are all items completed? YOUR ESTIMATES will be better than ours. Estimates may be noted on a separate sheet.
4. Are all branches and components such as a medical school and agricultural experiment station included?
5. Have you included all postdoctorals?

CONFIDENTIALITY

The National Science Foundation recognizes that its ability to gather much of the enclosed information would be severely impaired if it could not be held in confidence. Please indicate below the number of any items which would not be supplied but for assurance that the source will be held in confidence. The Foundation will hold in confidence such information to the extent permitted by law.

ITEM

1975–1976 DATA CHECK

Please compare your January 1976 personnel data with your response for January 1975, particularly for the following item totals. Please explain below or on a separate sheet any significant changes and where possible, indicate any required adjustments in data reported in previous surveys.

	1975	1976
Total full-time scientists & engineers	Line 2100, col. 1	Line 2100, col. 1
Total part-time scientists & engineers	Line 2300, col. 1	Line 2300, col. 1
Total technicians employed in the sciences and engineering	Line 2800, col. 1	Line 2800, col. 1

REMARKS

PLEASE TYPE OR PRINT

NAME OF PERSON SUBMITTING THIS FORM	TITLE	AREA CODE	EXCH	NO.	EXT
NAME OF PERSON WHO PREPARED THIS SUBMISSION (If different from above)	TITLE	AREA CODE	EXCH	NO.	EXT

NAME OF INSTITUTION	DATE	ADDRESS (number, street, city, State, ZIP code)

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NSF Form 724 (11 75)
Instruction sheet

NATIONAL SCIENCE FOUNDATION
WASHINGTON, D.C. 20550

SURVEY OF SCIENTIFIC AND ENGINEERING PERSONNEL EMPLOYED AT UNIVERSITIES AND COLLEGES, JANUARY 1976

INSTRUCTIONS AND DEFINITIONS

The National Science Foundation requests your cooperation in completing the attached questionnaire covering the personnel characteristics of your institution as they relate to the sciences and engineering. This form requests employment data as of January 1976. The questionnaire should be completed and returned to NSF by **March 31, 1976.**

This survey is comparable to that conducted by this office for last year, which included manpower as of January 1975. The major difference is the deletion of the question concerning graduate students. Where data reported in the current survey differ significantly from those reported in the previous survey, please indicate the reasons for the difference, such as "opening of new medical school," etc., at the end of the questionnaire or on a separate sheet of paper.

If you have any questions regarding information requested on this form, write or telephone Mr. Robert Loycano at the Universities and Nonprofit Institutions Studies Group, Division of Science Resources Studies, National Science Foundation, 1800 G Street, N.W., Washington, D.C. 20550 (Telephone: (202)282-7790). Additional forms, as well as copies of previous responses, may be obtained by writing to the above address.

Institutions of Higher Education

Academic institutions should include in the form for the parent institution data on professional and technical personnel employed in the sciences and engineering in all branches and other units of the parent institution, *including* regional campuses, medical school, or an agricultural experiment station, but *excluding* an associated Federally Funded Research and Development Center (FFRDC). FFRDC's are to report their data separately from the administering university.

Include all personnel who were paid a salary or stipend, including *postdoctorals*, and other staff, such as members of religious orders, who received no remuneration while employed at the institution.

Exclude: (1) personnel on sabbatical or other leave status; (2) personnel employed in branches of your institution located in foreign countries; (3) unpaid voluntary staff; (4) student health service personnel; (5) agricultural extension personnel primarily involved in teaching; (a) farm management marketing; (b) home economics; (c) 4-H youth programs; and, (d) business and public administration.

Medical Schools

Incorporate data for medical schools in the data for the parent institution. Medical schools are those two- or four-year schools of medicine approved by the Council on Medical Education and Hospitals and the Association of American Medical Colleges. Include (1) teaching and R&D functions of hospitals or clinics owned, operated, or controlled by universities and integrated operationally with the clinical programs of their medical schools; (2) research bureaus or institutes which are integral parts of medical schools; (3) research bureaus and institutes which are nonuniversity owned but are affiliated with the medical school and any university bureaus, and institutes which may be outside the departmental structure of universities, but whose senior research staff members hold teaching appointments with medical schools.

Personnel employed at such organizations that are to be reported in the survey include: physicians (residents and nonresidents), dentists, public health specialists, pharmacists, etc., who spend the greatest proportion of their time in teaching, clinical investigation, or other R&D activities.

Exclude: (1) all medical practitioners who spend the greatest proportion of their time providing patient care, dispensing drugs or services, or in diagnosis, etc.; (2) scientists whose primary employment is at independent hospitals even though they may perform some teaching or research functions for your institution through cooperative agreements; (3) interns; (4) nurses; (5) allied health professionals such as nurse anesthetists, occupational therapists, and physical therapists; and, (6) unpaid voluntary staff at medical or dental schools.

Federally Funded Research and Development Centers

For purposes of this survey, FFRDC's are defined as R&D organizations exclusively or substantially financed by the Government, and administered on a contractual basis by educational institutions or other organizations. The following is a current list of FFRDC's administered by universities and colleges:

Ames Laboratory
Applied Physics Laboratory (Johns Hopkins University)
Argonne National Laboratory
Brookhaven National Laboratory
Center for Naval Analyses
Cerro Tololo Inter-American Observatory
E.O. Lawrence Berkeley Laboratory
E.O. Lawrence Livermore Laboratory
Jet Propulsion Laboratory
Kitt Peak National Observatory
Lincoln Laboratory
Los Alamos Scientific Laboratory
Fermi National Accelerator Laboratory
National Astronomy and Ionosphere Center
National Center for Atmospheric Research
National Radio Astronomy Observatory
Oak Ridge Associated Universities
Ordnance Research Laboratory
Plasma Physics Laboratory
Space Radiation Effects Laboratory
Stanford Linear Accelerator Center

Data Elements Required to Complete This Survey

If the following seven characteristics are known for each science and engineering employee, the request can be completed without estimates. The characteristics are further described elsewhere in the instructions.

1. Scope of personnel included:
   a. Scientists and engineers
   b. Science and engineering technicians
2. Assignment status:
   a. Full time
   b. Part time
3. Field of employment (22 fields in 7 groupings)
4. Full-time equivalent (FTE)
5. Function:
   a. Teaching
   b. Research and development
   c. Other science and engineering activities
6. Highest earned degree:
   a. Ph.D. or Sc.D.
   b. Ed.D., J.D., etc.
   c. M.D., D.D.S., D.V.M., etc.
   d. Master's
   e. Bachelor's or its equivalent
7. Classification of scientists and engineers by sex.

Classification of Fields of Employment in the Sciences and Engineering

Listed below are the broad and detailed fields of employment corresponding to the fields shown on the questionnaire with illustrative disciplines in each field.

Please classify persons (including those employed in interdisciplinary or multidisciplinary specializations) in the listed fields with which their activities (teaching, research, or other) are most closely identified. In the case of a scientist employed in a general category

such as science education he should be reported in the field most closely related to the academic requirements of his position—such as mathematics, sociology, or psychology.

It is recognized that because of the importance of academic departments in the organizational structure and, thus, in the information system of institutions of higher education, many institutions must report individuals in terms of the departmental assignment shown in the personnel information system. In some instances, the designated department will not necessarily be the same as the field in which an individual is actually employed.

Because of the departmental structure, however, it is important that respondents include in the survey organizational units that are not part of any academic department. For example, scientists and engineers employed at a computer center not affiliated with a particular academic department should be included in the survey.

ENGINEERING

Aeronautical and astronautical: aerodynamics, aerospace, space technology
Chemical: ceramic, petroleum, petroleum refining, process
Civil: architectural, hydraulic, hydrologic, marine, sanitary and environmental, structural, transportation
Electrical: communication, electronic, power
Mechanical: engineering mechanics
Other engineering: agricultural, industrial and management, metallurgical and materials, mining, nuclear, ocean engineering systems, textile, welding

PHYSICAL SCIENCES

Chemistry: analytical, inorganic, organo-metallic, organic, pharmaceutical, physical, polymer science (exclude biochemistry)
Physics: acoustics, atomic and molecular, condensed matter, elementary particles, nuclear structure, optics, plasma
Other physical sciences: astronomy (laboratory astrophysics, optical astronomy, radio astronomy, theoretical astrophysics, X-ray, gamma-ray, neutrino astronomy), metallurgy

ENVIRONMENTAL SCIENCES (terrestrial and extraterrestrial)

Earth sciences: engineering geophysics, general geology, geodesy and gravity, geomagnetism, hydrology, inorganic geochemistry, isotopic geochemistry, organic geochemistry, lab geophysics, paleomagnetism, paleontology, physical geography and cartography, seismology, soil sciences
Atmospheric sciences: aeronomy, solar, weather modification, extraterrestrial atmospheres, meteorology
Oceanography: biological oceanography, chemical oceanography, geological oceanography, physical oceanography, marine geophysics

MATHEMATICAL SCIENCES

Mathematics: algebra, analysis, applied mathematics, foundations and logic, geometry, numerical analysis, statistics, topology
Computer science: computer programming;[1] computer and information sciences (general); design, development, and application of computer capabilities to data storage and manipulation; information sciences and systems; systems analysis

LIFE SCIENCES

Agricultural sciences: agronomy, animal science, dairy science, food science and technology, forestry, horticulture, poultry science
Biological sciences: anatomy, bacteriology, biochemistry, biogeography, biophysics, ecology, embryology, entomology, evolutionary biology, genetics, immunology, microbiology, nutrition and metabolism, parasitology, pathology, pharmacology, physical anthropology, physiology, plant sciences, radiobiology, systematics
Medical sciences: internal medicine, neurology, ophthalmology, preventive medicine and public health, psychiatry, radiology, surgery, veterinary medicine, dentistry, pharmacy, podiatry

PSYCHOLOGY: animal behavior; clinical psychology; comparative psychology, counseling and guidance; development and personality; educational, personnel, vocational psychology and testing; experimental psychology; ethology; industrial and engineering psychology; social psychology

SOCIAL SCIENCES

Economics: agricultural economics; econometrics and economic statistics; history of economic thought; international economics; industrial, labor and agricultural economics; macroeconomics; microeconomics; public finance and fiscal policy; theory; economic systems and development
Sociology: comparative and historical, complex organizations, culture and social structure, demography, group interactions, social problems and social welfare, sociological theory
Political science: area or regional studies; comparative government; history of political ideas; international relations and law; national, political and legal systems; political theory; public administration
Other social sciences: cultural anthropology, history of science, linguistics, socioeconomic geography, research in education, and research in law, i.e., attempt to assess impact on society of legal systems and practices.

[1] Personnel employed as computer programmers should be reported as technicians (item 7).

Section A—Number of Scientists and Engineers, January 1976

(Includes postdoctorals; excludes graduate students)

This section requests data on full- and part-time employed scientists and engineers. Scientists and engineers include faculty members, postdoctorals, and other professionals (at a level at which the knowledge acquired by academic training equal to a bachelor's degree is essential in the performance of duties) working in the sciences and engineering at your institution, including those in research administration.

Two of the most common methods used to determine an individual's full-time employment are (1) his or her working 40 hours per week, or, (2) teaching 12 credit hours per week. (The preceding serve as illustrations only; the "full-time" workload may vary somewhat from institution to institution.)

Item 1. Full-time scientists and engineers, by field and function in which *primarily* employed, January 1976.

In items 1a through 1h, the functional classification of professional personnel into teaching (column 2), R&D (column 3), and other science and engineering activities (column 4), should be based on the function in which the person is primarily engaged or employed at the institution. For example, a person engaged in two or all three of the specified functional categories should be classified in the function in which he spends the largest proportion of his time. Exclude outside consulting work and teaching not performed under the auspices of your institution.

In classifying personnel by function, note that determinations made solely on the basis of job titles may produce a significant bias, primarily toward teaching. Persons with professorial rank may also be engaged in research. Among the factors that may be considered in determining the primary function of an individual are both his "separately budgeted" R&D assignment *and* his estimated departmental research workload.

In classifying an individual under a particular category (teaching, research and development, or other science and engineering activities), take into consideration all official activities even if carried on in a school or department other than the one in which he holds his principal appointment.

Teaching (column 2) is defined as encompassing those activities connected with degree-credit courses or which are intended to lead ultimately to the granting of degrees or certificates or to professional certification or licensing. Included are such functions as instruction and training performed in connection with degree-credit courses and the administration of such instruction and training.

Include under "teaching" any academic administrator—such as the president, a dean, a department chairman—who holds a science or engineering degree, unless the individual is primarily involved in the administration of R&D activities. If the individual cannot be identified with one specific discipline, report the field of his highest earned degree. Administrators primarily involved in R&D activities should be reported in the "R&D" column.

Include instruction of interns, residents, and other professional personnel receiving advanced training such as postdoctoral fellows or trainees.

Time spent by faculty or other staff members in supervising the thesis work of graduate students is considered to be part of the teaching function.

Exclude instructors in nursing, dental hygiene, etc.

Research and development (column 3) include basic and applied research in the sciences and in engineering, and design and development of prototypes and processes.

Research is a systematic, intensive study directed toward fuller knowledge of the subject studied. Included in this function is the preparation for publication of books and papers describing the results of the specific research and development, if carried out as an integral part of that research and development. Also included is the *administration* of research and development.

Development is the systematic use of knowledge directed toward the design and

production of useful prototypes, materials, devices, systems, methods, or processes. It does not include quality control or routine product testing.

Under *other science and engineering activities* (column 4) report all professional personnel not primarily employed in teaching or research and development, as defined above. Examples of such activities are agricultural demonstration work not specifically excluded on page 1; adult education (if not degree credit); dissemination of scientific information; student counseling by individuals with a degree in psychology. *Exclude* hospital employees predominantly involved in patient services, Student Health Service professionals, and other individuals that are not primarily engaged in science or engineering activities. *Do not use* this category to report individuals for which there is difficulty in determining their primary function. It is preferable that you classify each person in the most appropriate functional category according to your best estimate.

Full-time-equivalent distribution, by function. In line 1i, apportion staff members across the three functions on the basis of the proportion of effort or time spent in each of the functions, thus correcting for the "primarily engaged" head-count data reported in line 1h. For example, an individual devoting three-fourths time to teaching and one-fourth to research and development should be counted as 0.75 in teaching and 0.25 in research and development. The FTE values should be cumulated for each function. This sum should then be *rounded to the nearest whole number* before entering the number on the questionnaire. In item 1i, figures entered in columns (2), (3), and (4) should add to the total in column (1).

Item 2. Full-time scientists and engineers, by highest earned degree and function in which *primarily* employed, January 1976.

For the purposes of this survey, earned degrees are classified in five categories as defined below:

a. "Ph.D. or Sc.D." degrees include all such earned degrees. Include individuals holding both the Ph.D. (or Sc.D.) degree and another doctorate degree.

b. "Ed.D., J.D., etc." include all such earned degrees.

c. "M.D., D.D.S., D.V.M., etc." includes individuals whose highest earned degrees are first-professional medical degrees that indicate the completion of the academic requirements based on programs that require at least two academic years of previous college work for entrance and require a total of at least six academic years of college work for completion. Specifically, include in line 2c first-professional degrees in medicine (M.D.), Dentistry (D.D.S. or D.M.D.), Veterinary Medicine (D.V.M.), Chiropody or Podiatry (D.S.C. or D.P.), and Osteopathy (D.O.). Individuals holding both the Ph.D. (Sc.D.) degree and a first-professional degree, such as the M.D., should be included in line 2a as mentioned in (a) above.

d. "Master's" degrees include all degrees above the bachelor's and first-professional degree and other than the doctorate degrees reported in lines 2a thru 2c.

e. "Bachelor's or the equivalent" include all individuals whose highest earned degree is the bachelor's degree or a four- or five-year first-professional degree, or who have the equivalent in experience, even if they have not earned such a degree.

Item 3. Part-time scientists and engineers, by field and function in which *primarily* employed, January 1976.

Instructions for item 1 (1a thru 1h) relating to classification by field and function also relate to part-time professional staff in item 3.

In estimating the full-time equivalents of part-time personnel in item 3i, take into account both the overall workload and the proportion of time spent on each of the three functions of activity. For example, if the full-time workload were 40 hours per week, and an individual were estimated to spend 10 hours on teaching and related duties and 6 hours on research, his FTE values would be: Teaching — .25 (10/40); R&D — .15 (6/40). The FTE values should be cumulated for each function and *rounded to the nearest whole number* before entering the number on the questionnaire. The FTE values entered in columns (2), (3), and (4) should then be summed to arrive at the total to be entered in column (1).

Item 4. Part-time scientists and engineers, by highest earned degree and function in which *primarily* employed, January 1976.

Instructions for item 2 relating to the classification by field and highest earned degree also relate to part-time professional staff in item 4.

Item 5. Scientists and engineers with doctorate degrees, by field in which *primarily* employed, January 1976.

Include only Ph.D.'s and Sc.D.'s reported in items 2a and 4a. Exclude Ed.D., J.D., M.D., D.D.S. degrees, etc. The total number in item 5h, column 2 should equal the number shown in item 2a, column 1; the total number in item 5h, column 3 should equal the number shown in item 4a, column 1.

Item 6. Full-time scientists and engineers, by field in which *primarily* employed and sex, January 1976.

Institutions are requested to report total full-time scientists and engineers, by sex and field in which *primarily* employed. Data in column 1 (total of men and women) should equal data shown in item 1, column 1.

Section B—Number of Technicians Employed in the Sciences and Engineering, January 1976

Item 7. Technicians, by field and function in which primarily employed, January 1976.

Technicians *include* all persons employed in positions which involve technical work at a level requiring knowledge in any of the fields of engineering, mathematics, physical sciences, environmental sciences, life sciences, psychology, or social sciences comparable to that acquired through formal post-high school training (less than a bachelor's degree), such as that obtained at technical institutes and junior colleges or through equivalent on-the-job training or experience. All personnel performing the duties described above should be reported as technicians even if they hold a bachelor's or higher degree. Some typical job titles include laboratory technician or assistant, physical science aide, engineering aide, statistical aide, draftsman, and computer programmer.

Exclude: graduate students; technicians involved primarily in patient care service in university-affiliated hospitals; craftsmen such as electricians, carpenters, machinists, etc. In the case where undergraduate students, juniors or seniors, are employed in R&D activities, they may, where applicable, be included as technicians.